

**CSMP Mathematics
for the
Intermediate Grades
Part II**

Worksheets

What's In This Book?

This book contains all the worksheets you will need for *CSMP for the Intermediate Grades, Part II*. Worksheets are labeled with the same letter and number as the lessons with which they are used. In this book, they are in the following order:

N Worksheets

N1	N11	N23
N2	N12	N24
N3	N14	N27
N4	N15	N29
N5	N16	N30
N7	N17	N31
N8	N19	N32
N9	N20	N33
N10	N22	N34

L Worksheets

L2	L6	L9
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G Worksheets

G1	G5	G8
G2	G6	G12
G3	G7	G13
G4		

W Worksheets

W4	W10
W9	W11

Name _____

N1	*
----	---

Nabu must put 167 softballs into boxes. Each box holds 10 softballs. Use an arrow road to calculate how many boxes Nabu will be able to fill.

167
●

How many boxes will Nabu be able to fill? _____

How many softballs will be left over? _____

Name _____

N1	**
----	----

Nabu must put 167 softballs into boxes. Each box holds 6 softballs. Use an arrow road to calculate how many boxes Nabu will be able to fill.

167
●

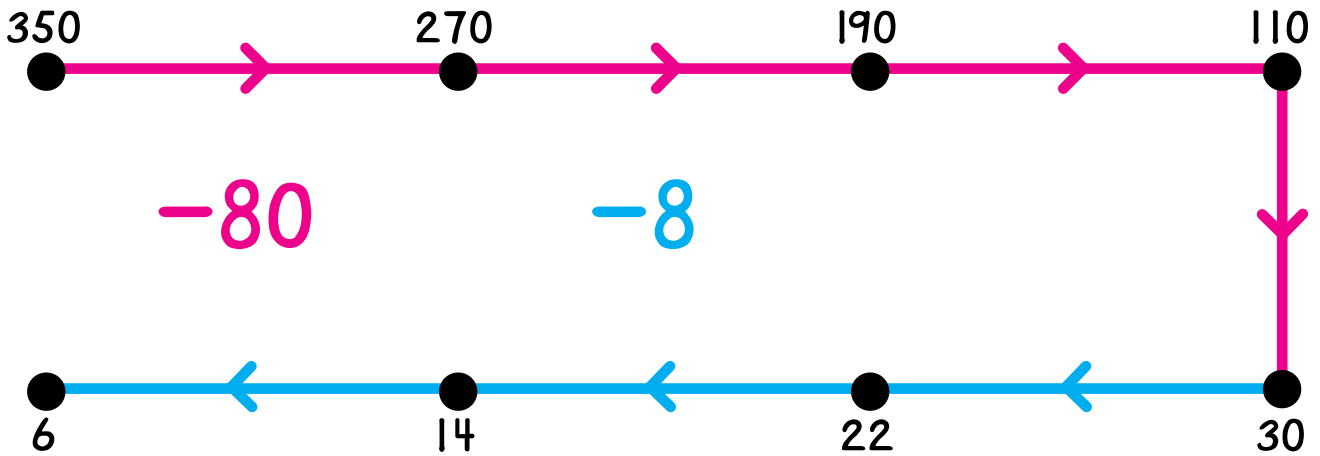
How many boxes will Nabu be able to fill? _____

How many softballs will be left over? _____

Name _____

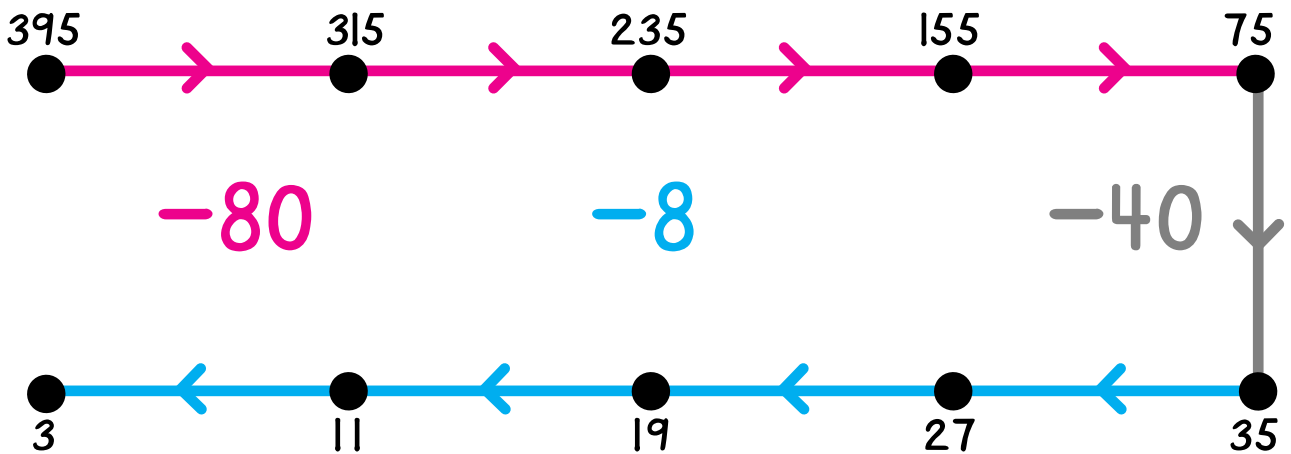
N1 ***

Nabu must put 350 softballs into boxes. Each box holds 8 softballs. Nabu uses this arrow picture to calculate how many boxes he will be able to fill.



How many boxes will he be able to fill? _____

Nabu must put 395 softballs into boxes. Each box holds 8 softballs. Nabu uses this arrow picture to calculate how many boxes he will be able to fill.



How many boxes will he be able to fill? _____

Name _____

N1	****
----	------

A factory which manufactures softballs puts 12 softballs into each small box and then puts 10 small boxes into each large box. A large city orders 4 000 softballs for their summer softball leagues. Use an arrow picture to calculate the number of full large boxes they will receive.

4 000
●

How many large boxes will they receive? _____

How many extra small boxes will they receive? _____

How many balls will be left to package separately? _____

Name _____

What number is on the Minicomputer?

<table border="1"><tr><td></td><td></td></tr><tr><td>2</td><td></td></tr></table> _____			2		<table border="1"><tr><td></td><td>2</td></tr><tr><td></td><td></td></tr></table> _____		2			<table border="1"><tr><td>2</td><td></td></tr><tr><td></td><td></td></tr></table> _____	2				<table border="1"><tr><td></td><td></td></tr><tr><td>3</td><td></td></tr></table> _____			3	
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	3																		
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	5																		
5																			
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<table border="1"><tr><td>4</td><td></td></tr><tr><td></td><td></td></tr></table> _____	4				<table border="1"><tr><td></td><td></td></tr><tr><td>6</td><td></td></tr></table> _____			6		<table border="1"><tr><td></td><td></td></tr><tr><td>7</td><td></td></tr></table> _____			7		<table border="1"><tr><td></td><td>8</td></tr><tr><td></td><td></td></tr></table> _____		8		
4																			
6																			
7																			
	8																		

Name _____

N2 **

Put each number on the Minicomputer using exactly one of these checkers:

- (2) (3) (4) (5) (6) (7) (8) (9)

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 12$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 10$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 18$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 16$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 20$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 14$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 28$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 24$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 48$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 56$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 40$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 72$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 100$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 400$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 280$$

Name _____

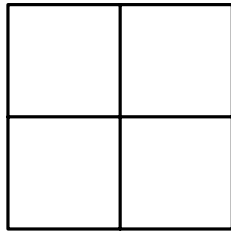
N2 ***

Diz is a secret number.

Clue 1

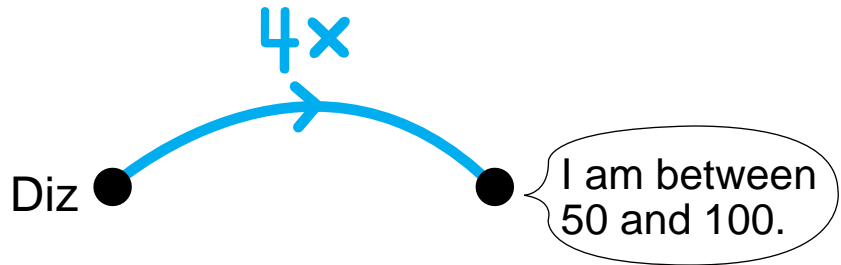
Diz is a multiple of 3 and can be put on this Minicomputer using exactly one of these checkers.

- (2) (3) (4) (5) (6) (7) (8) (9)



Diz could be _____, _____, _____, _____, _____, _____, _____, _____, or _____.

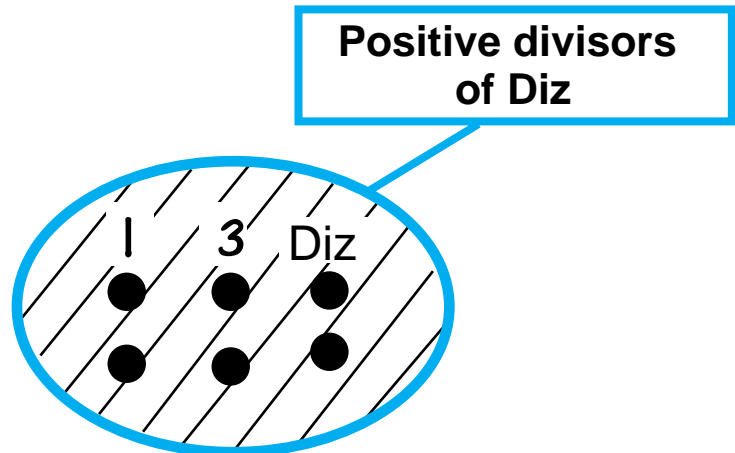
Clue 2



Diz could be _____ or _____.

Clue 3

Diz has exactly six divisors.



Who is Diz? _____

Name _____

N2 *****

Put each number on the Minicomputer using exactly two of these checkers:

- (2) (3) (4) (5) (6) (7) (8) (9)

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 50$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 60$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 100$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 75$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 250$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 370$$

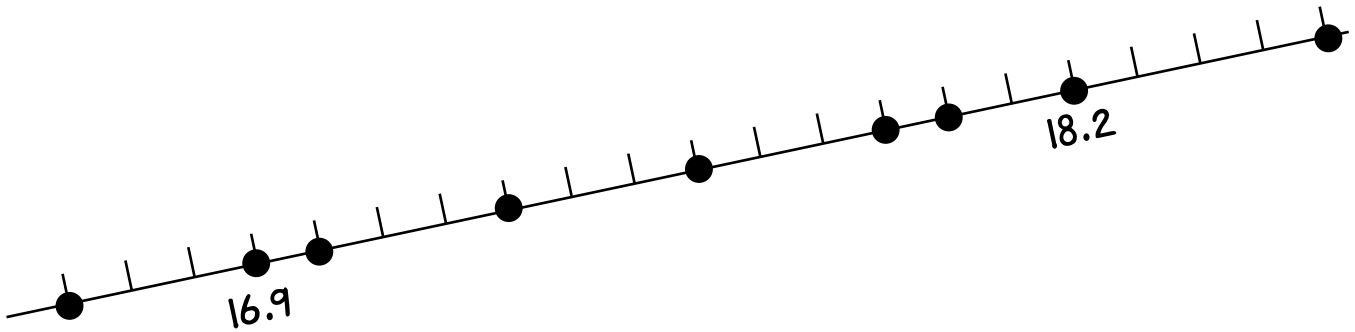
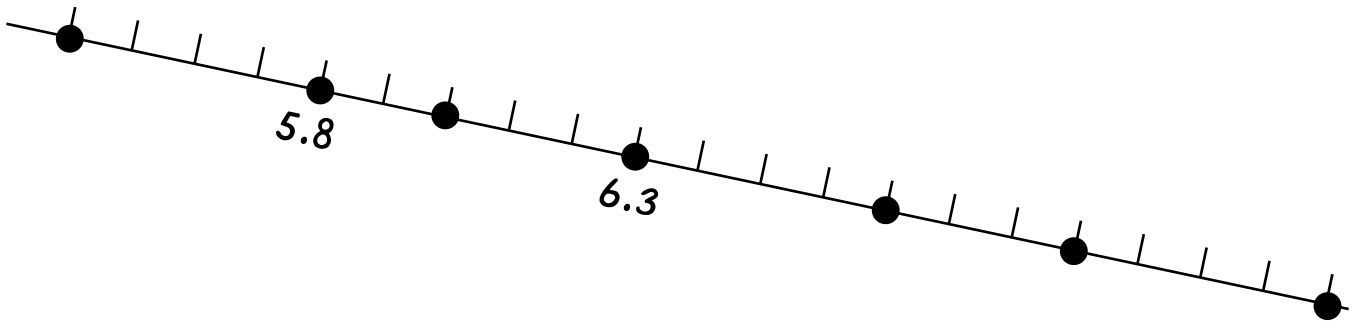
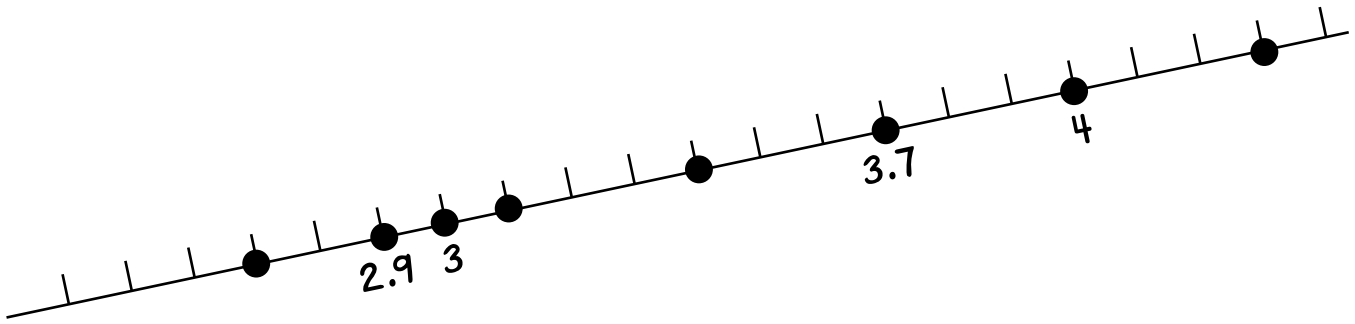
$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 792$$

$$\begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} \begin{array}{|c|c|} \hline & \\ \hline & \\ \hline \end{array} = 1200$$

Name _____

N3 *

Label the dots.

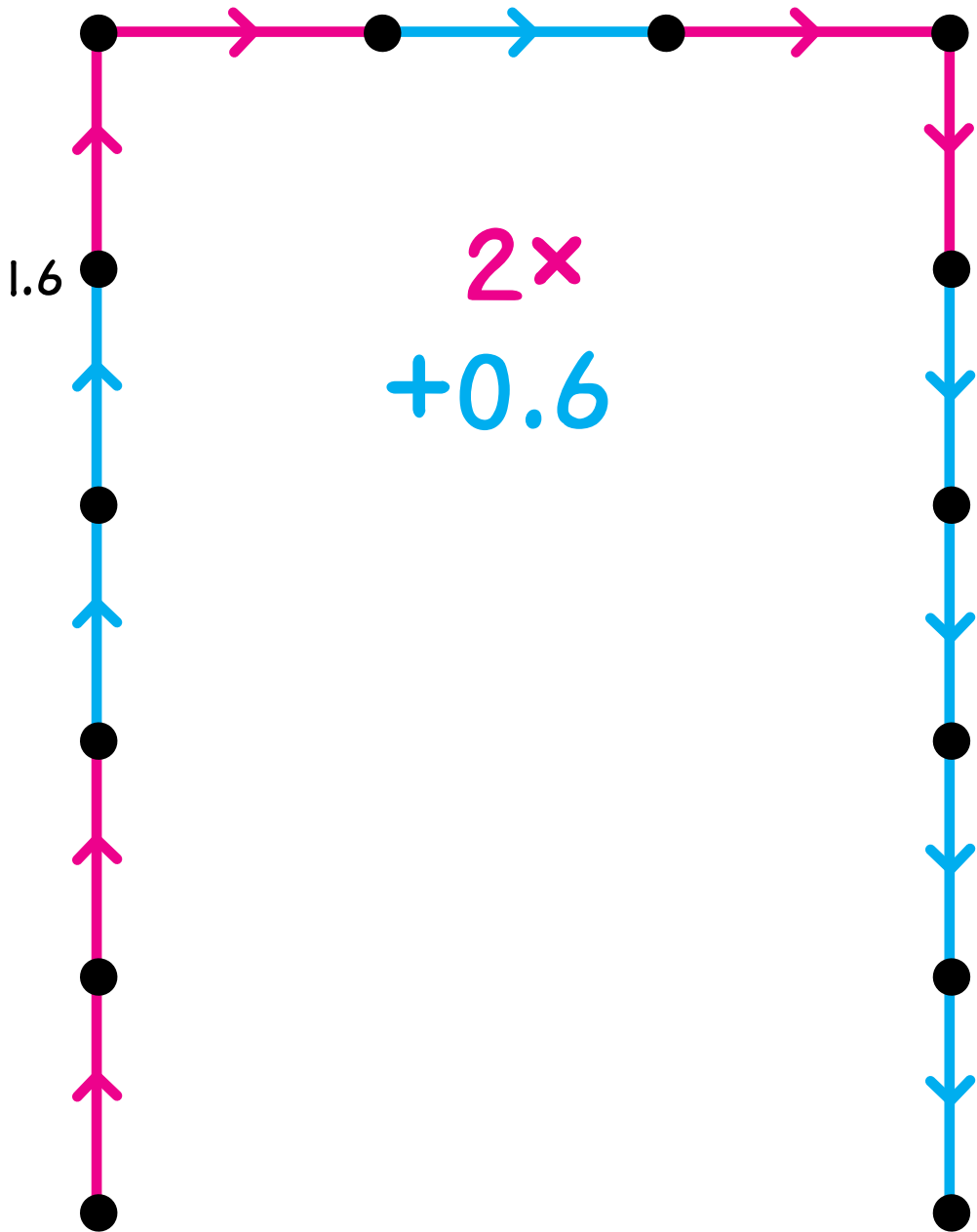


Name _____

N3 **

Clue 1

Flip is in this arrow picture.

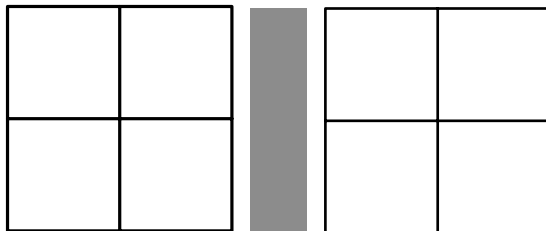


Name _____

N3 ***

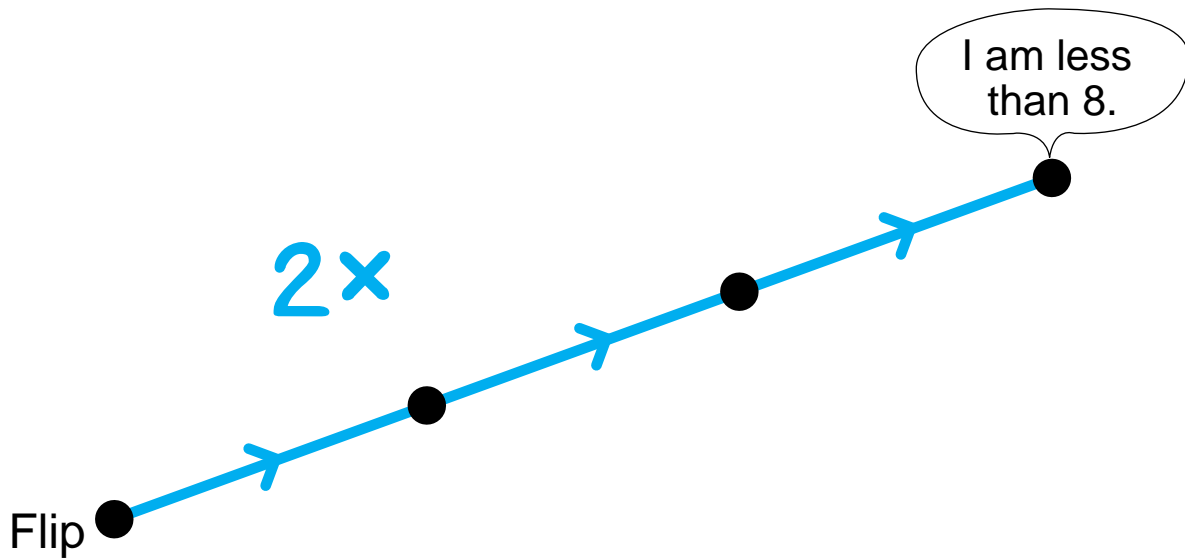
Clue 2

Flip can be put on this Minicomputer using exactly one checker (positive or negative) on each board.



Flip could be _____ or _____ or _____.

Clue 3

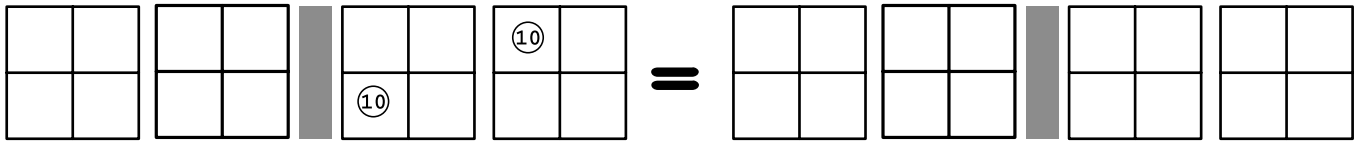


Who is Flip? _____

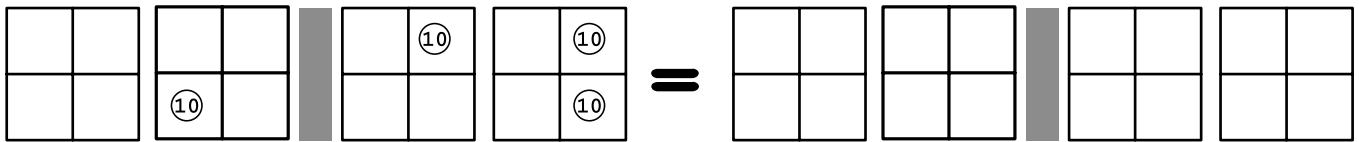
Name _____

N4

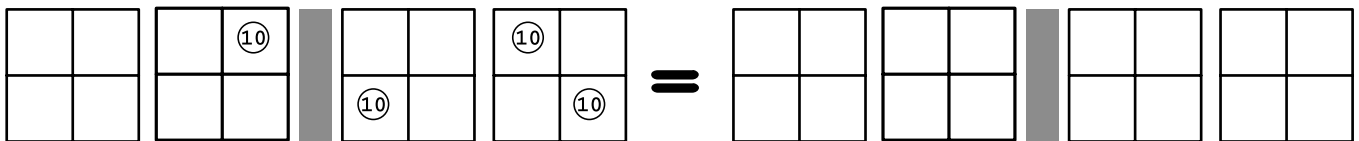
Trade ⑩-checkers for regular checkers. Complete the number sentences.



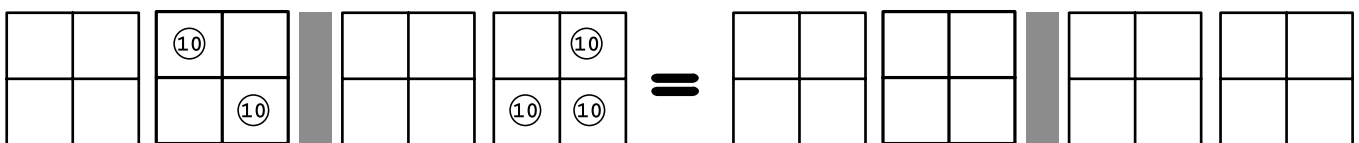
$$10 \times \boxed{} = \underline{\hspace{2cm}}$$



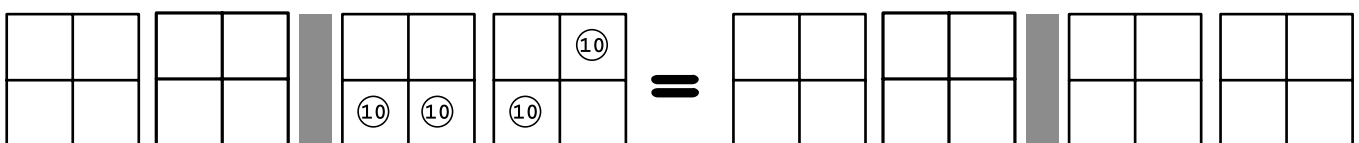
$$10 \times \boxed{} = \underline{\hspace{2cm}}$$



$$10 \times \boxed{} = \underline{\hspace{2cm}}$$



$$10 \times \boxed{} = \underline{\hspace{2cm}}$$



$$10 \times \boxed{} = \underline{\hspace{2cm}}$$

Name _____

Draw as many red arrows as possible in this picture.

$$10 \times 35$$

is less than



$$10 \times 35.6$$

$$10 \times 35.2$$

Fill in the boxes.

$$10 \times 36$$

$$10 \times 35 = \boxed{}$$

$$10 \times 35.2 = \boxed{}$$

$$10 \times 35.6 = \boxed{}$$

$$10 \times 36 = \boxed{}$$

Name _____

Draw as many red arrows as possible in this picture.

$$10 \times 48.1$$

is less than



$$10 \times 48.2$$

$$10 \times 48$$

Fill in the boxes.

$$10 \times 48.03$$

$$10 \times 48.2 = \boxed{}$$

$$10 \times 48.1 = \boxed{}$$

$$10 \times 48.03 = \boxed{}$$

$$10 \times 48 = \boxed{}$$

Name _____

N4 ***

Dote is a secret number.

Clue 1

Dote is the ending number of an arrow road that starts at 5 and that has exactly two +4 arrows and two 10x arrows.

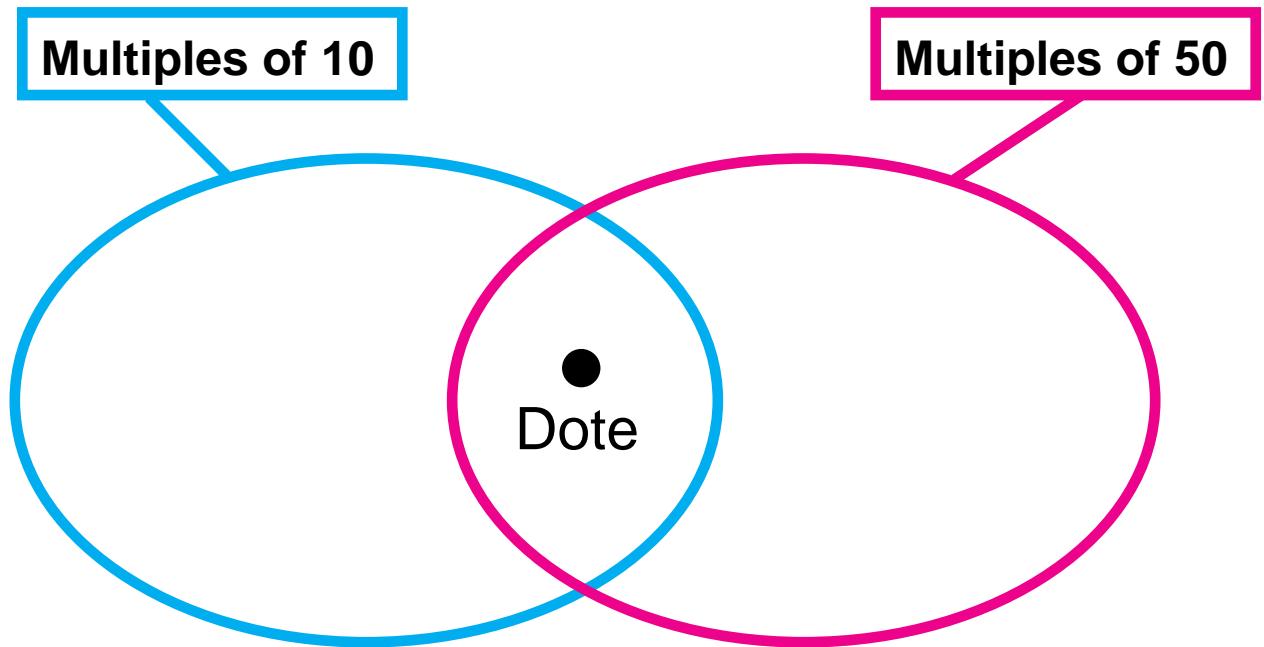
5
●

+4

10x

Dote could be _____.

Clue 2




Who is Dote? _____

$$\boxed{} \times 10 = \text{Dote}$$

$$\boxed{} \times 50 = \text{Dote}$$

Name _____

Draw arrows for "is less than." You may use your number lines to help you.

is less than 

$\frac{3}{8}$ ● ● $\frac{1}{3}$

$\frac{3}{4}$ ● ● $\frac{1}{5}$

Pair tags for numbers that are equal.

$\frac{1}{2}$

$\frac{2}{3}$

$\frac{3}{4}$

$\frac{4}{8}$

$\frac{4}{4}$

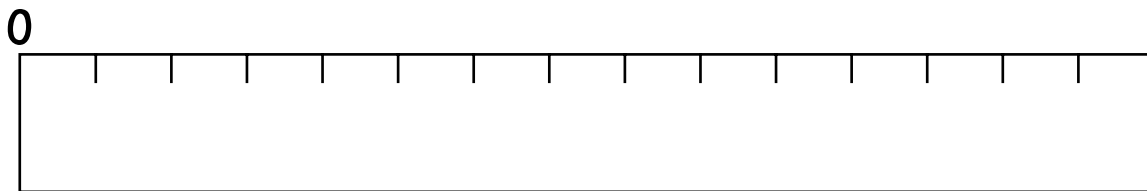
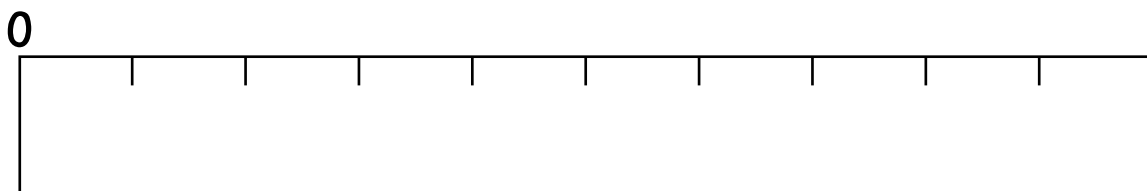
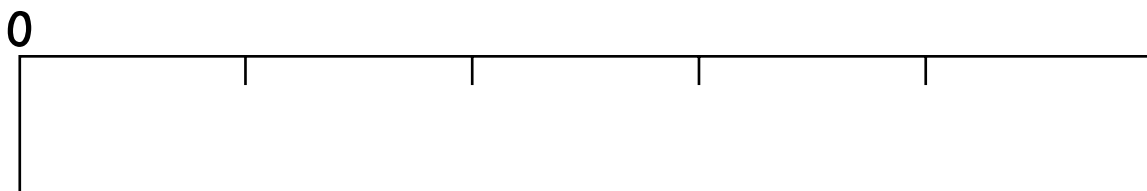
$\frac{6}{8}$

$\frac{4}{6}$

1

Name _____

Label the marks on each number line.



Complete.

$$\frac{1}{5} = \frac{\square}{10} = \frac{\square}{15}$$

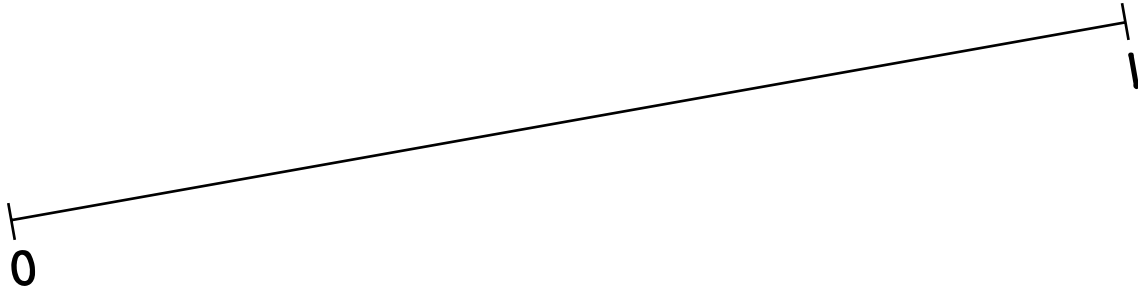
$$\frac{3}{5} = \frac{\square}{10} = \frac{\square}{15}$$

$$1 = \frac{\square}{5} = \frac{\square}{10} = \frac{\square}{15}$$

Name _____

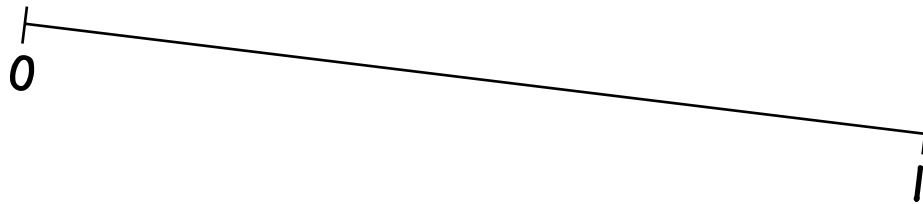
N5

Locate $\frac{2}{3}$ and $\frac{3}{5}$ on this number line. Use a ruler to locate each number accurately.



Which is greater, $\frac{2}{3}$ or $\frac{3}{5}$? _____

Locate $\frac{3}{4}$ and $\frac{5}{6}$ on this number line. Use a ruler to locate each number accurately.

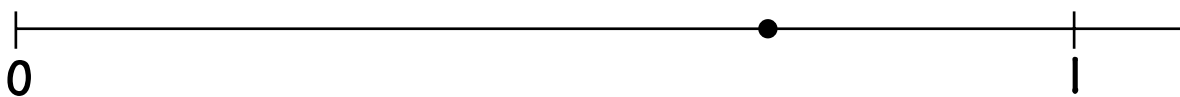
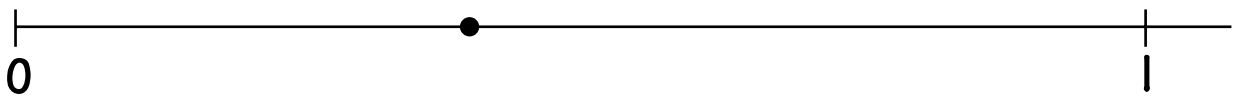
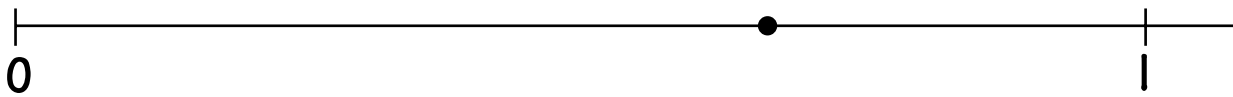
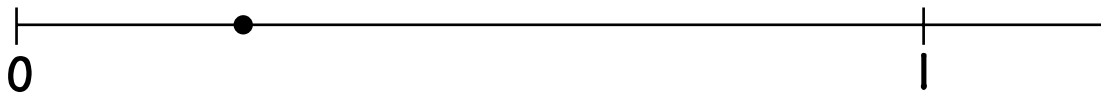


Which is greater, $\frac{3}{4}$ or $\frac{5}{6}$? _____

Name _____

N5 ****

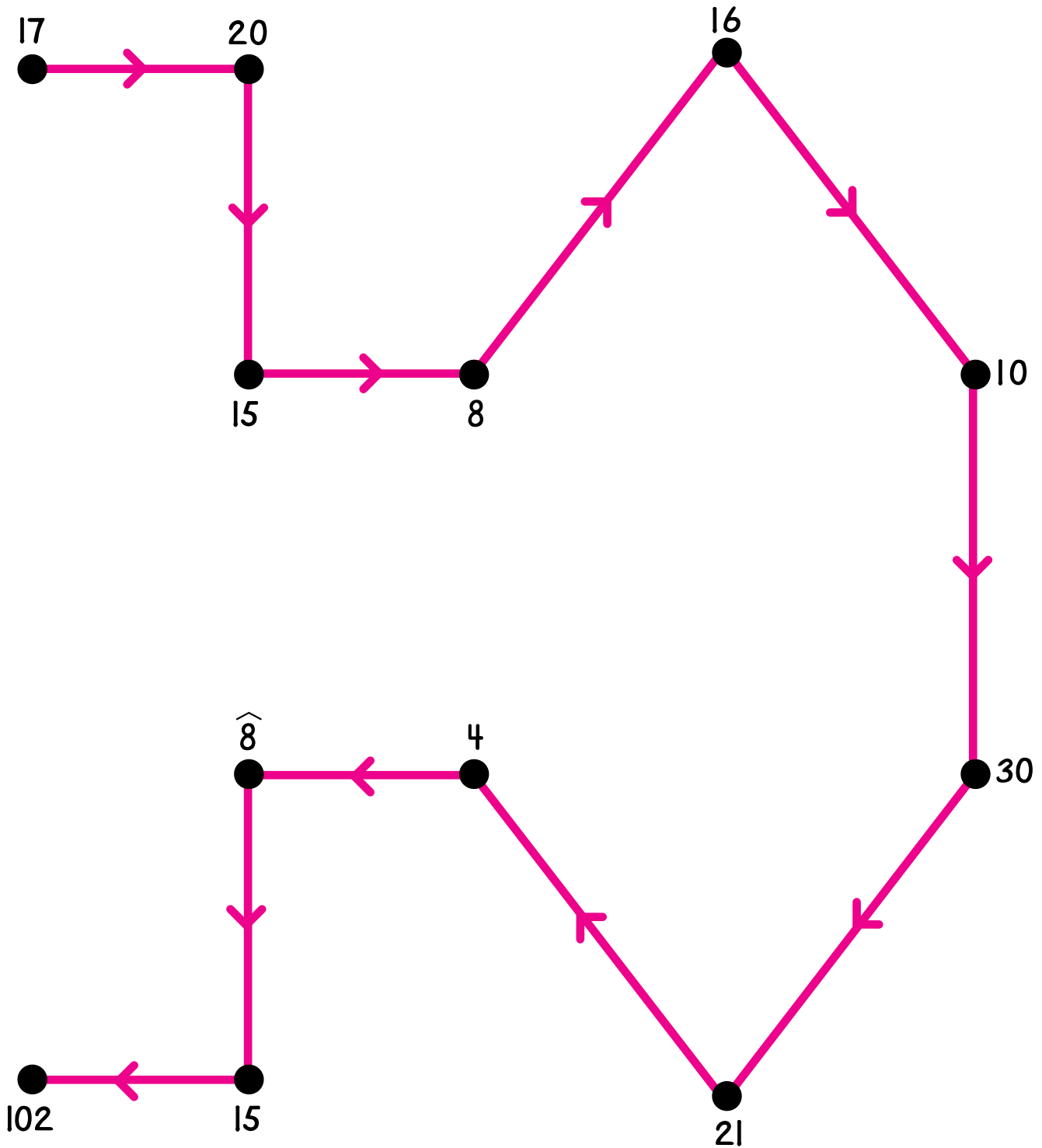
Label the dots.



Name _____

N7 *

Label each arrow + or - some whole number.



Name _____

N7

**

Fill in the boxes to give subtraction facts for 35.

$50 - \square = 35$

$51 - \square = 35$

$\square - 100 = 35$

$60 - \square = 35$

$61 - \square = 35$

$100 - \square = 35$

$80 - \square = 35$

$\square - 46 = 35$

$500 - \square = 35$

$\square - 55 = 35$

$\square - 146 = 35$

$1000 - \square = 35$

Name _____

N7 ***

Pick is a secret number.

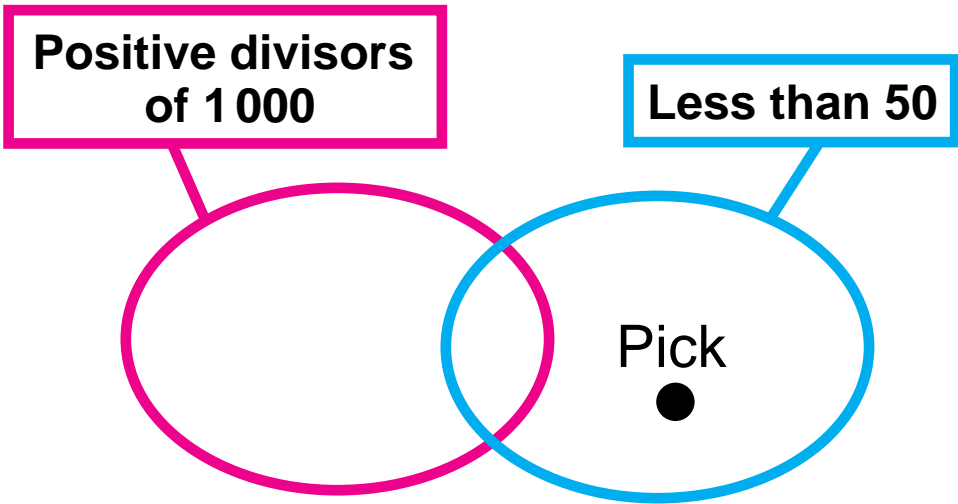
Clue 1

Pick is the ending number of an arrow road starting at 35 and using exactly two red arrows and two blue arrows.

$$2 \times -20$$

35 ●

Clue 2



Who is Pick? _____

Name _____

What number is on the Minicomputer?

		●			
			⤴	●	
				⤴	

= _____

				●	
				⤴	
		●			●

= _____

●	⤴	●	⤴	●	⤴

= _____

				●	
			⤴		⤴

= _____

				⤴	
			⤴	⤴	●

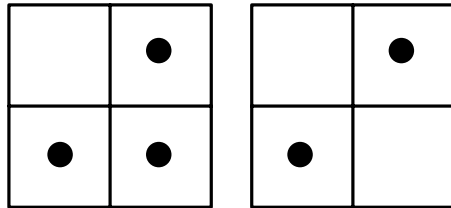
= _____

				3	
		3			

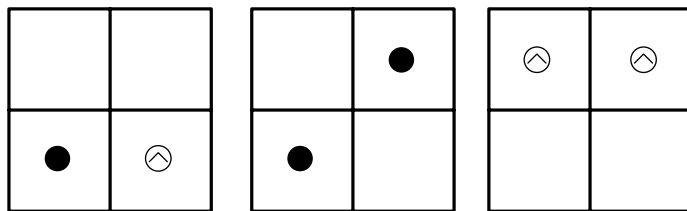
= _____

Name _____

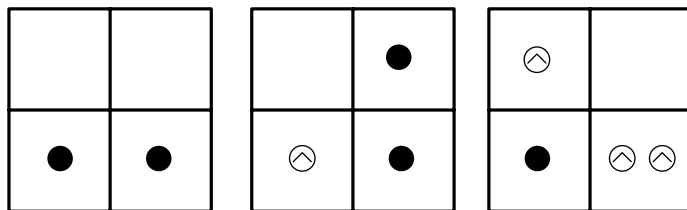
Move one checker to put 116 on the Minicomputer.



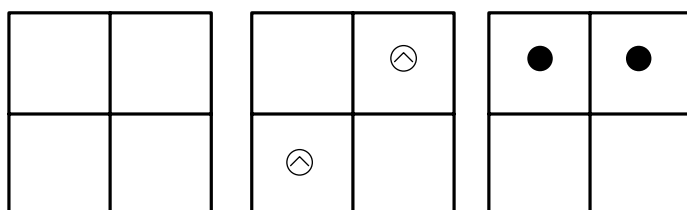
Move one checker to put 155 on the Minicomputer.



Move one checker to put 340 on the Minicomputer.



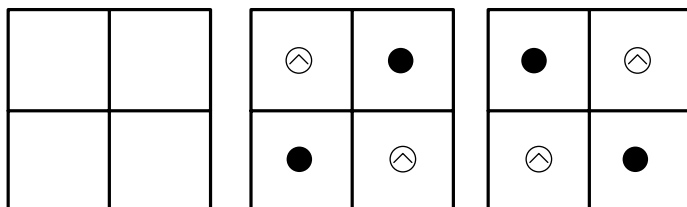
Move one checker to put $\widehat{10}$ on the Minicomputer.



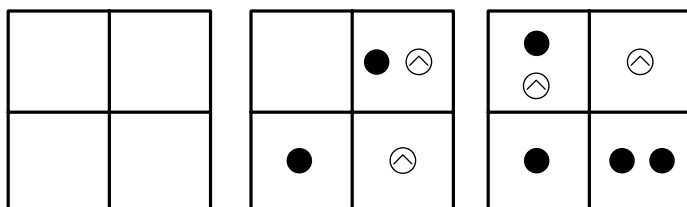
Name _____

N8 ***

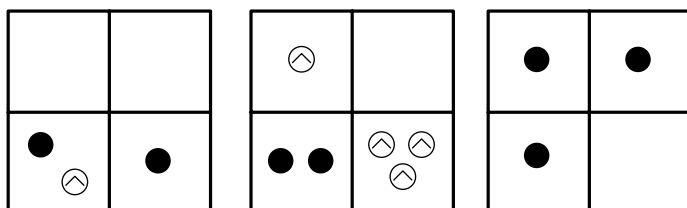
Move exactly two checkers to put 10 on the Minicomputer.



Move exactly two checkers to put 100 on the Minicomputer.



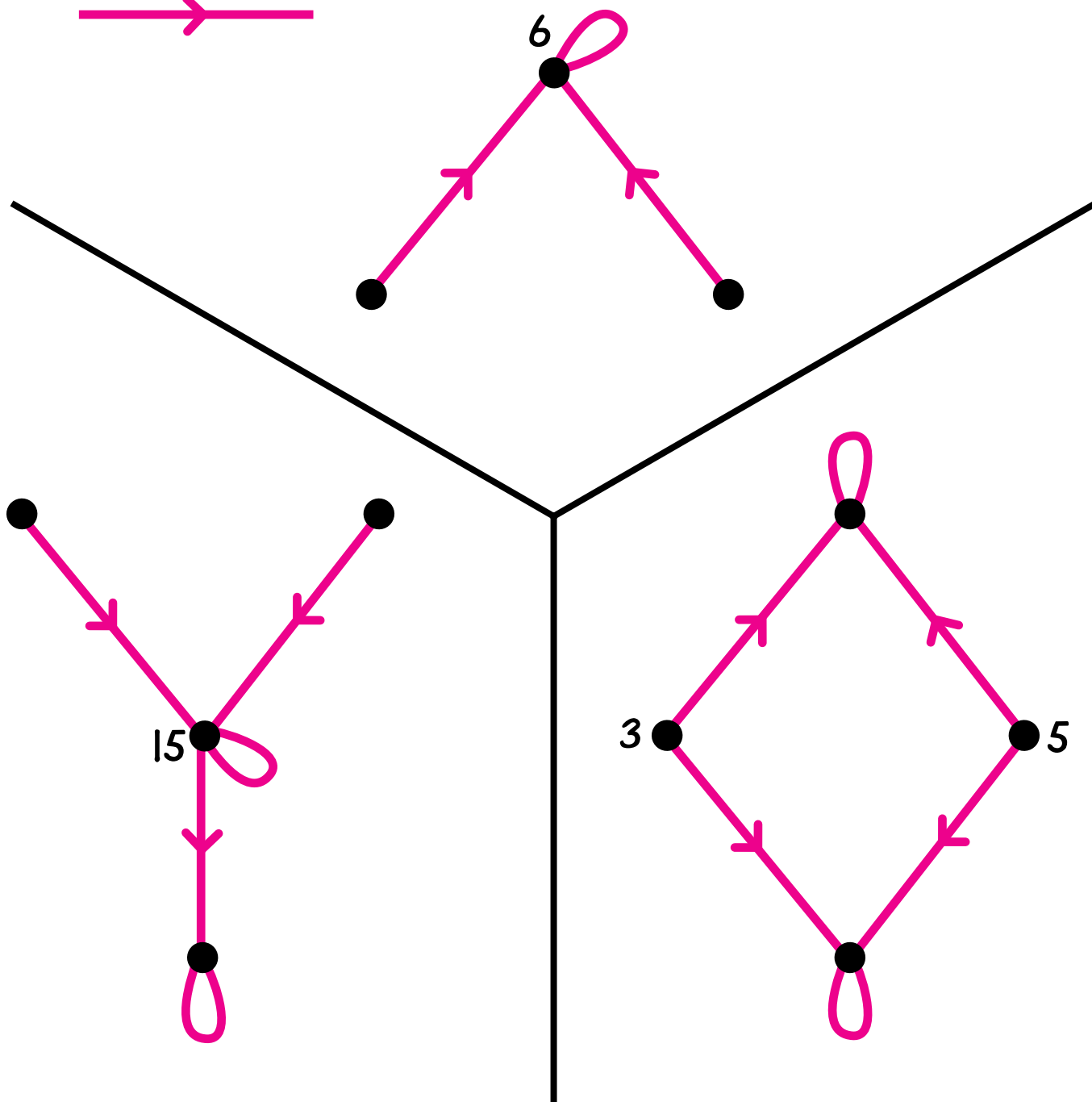
Move exactly two checkers to put 200 on the Minicomputer.



Name _____

Label the dots and draw all of the missing red arrows.

is a positive divisor of



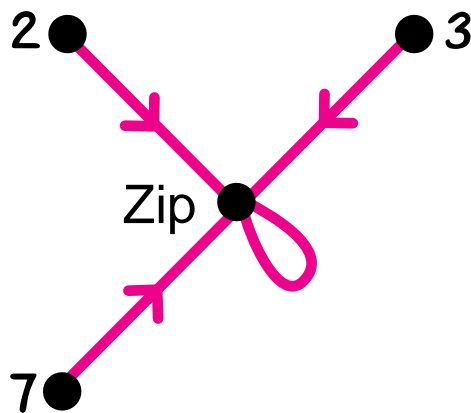
Name _____

N9 **

Zip is a secret number.

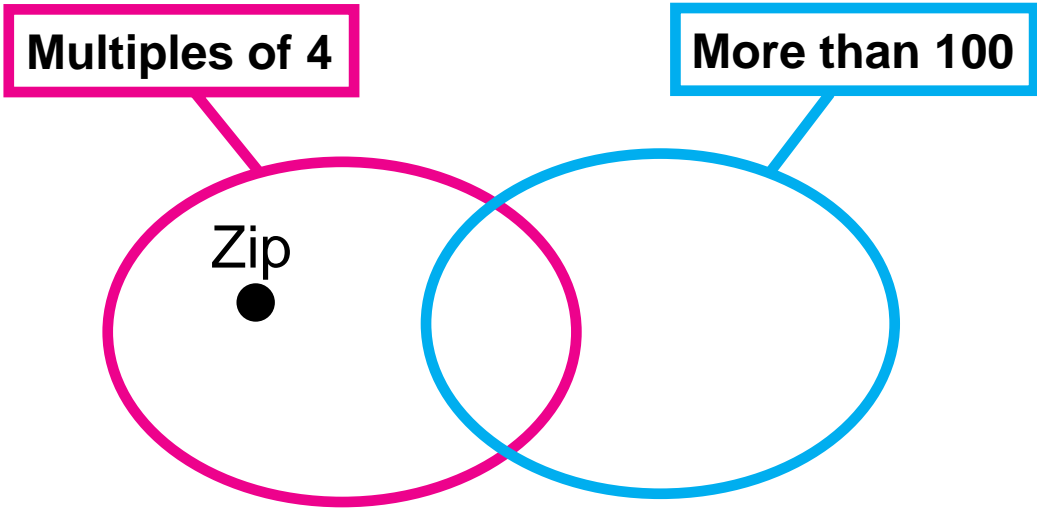
Clue 1

is a positive divisor of



Zip could be _____, _____, _____, _____, _____, and so on.

Clue 2

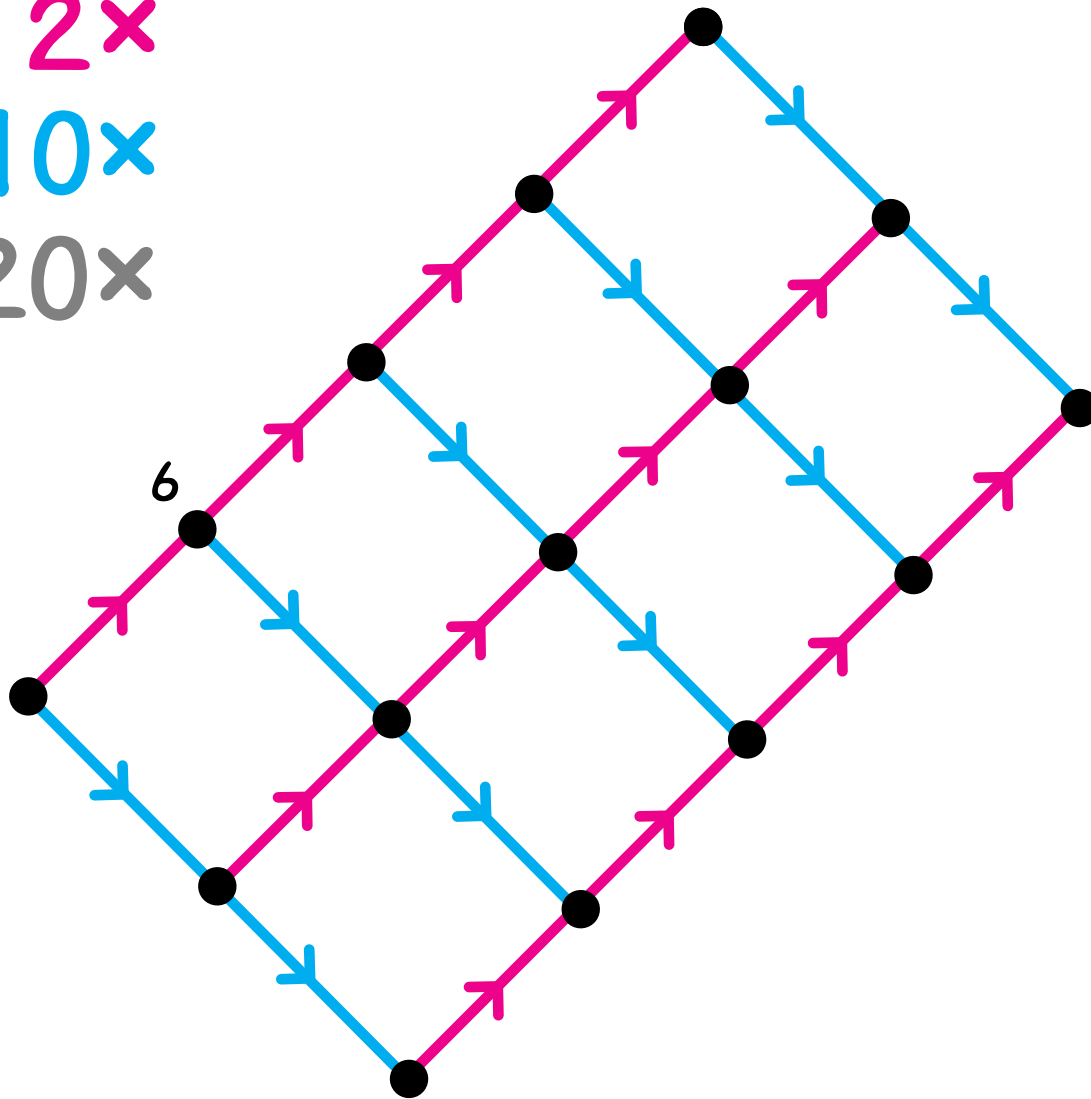


Who is Zip? _____

Name _____

Label all of the dots. Use pencil to draw as many 20x arrows as you can.

2x
10x
20x



Use the arrow picture to solve these problems.

$20 \times 6 =$ _____

$60 \div 10 =$ _____

$20 \times 12 =$ _____

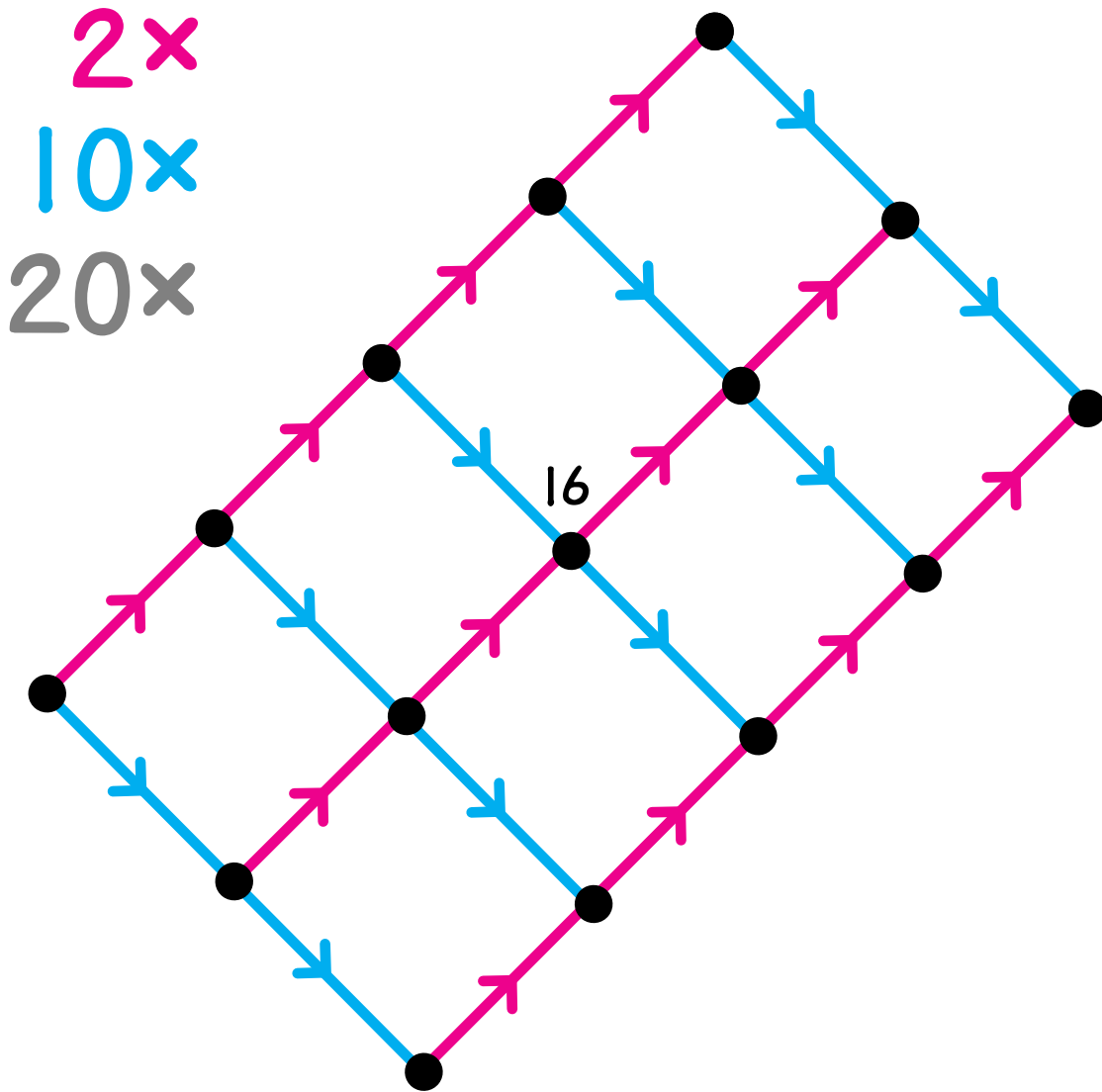
$120 \div 10 =$ _____

$20 \times 24 =$ _____

$1200 \div 10 =$ _____

Name _____

Label all of the dots. Use pencil to draw as many 20x arrows as you can.



Use the arrow picture to solve these problems.

$32 \div 10 =$ _____

$160 \div 20 =$ _____

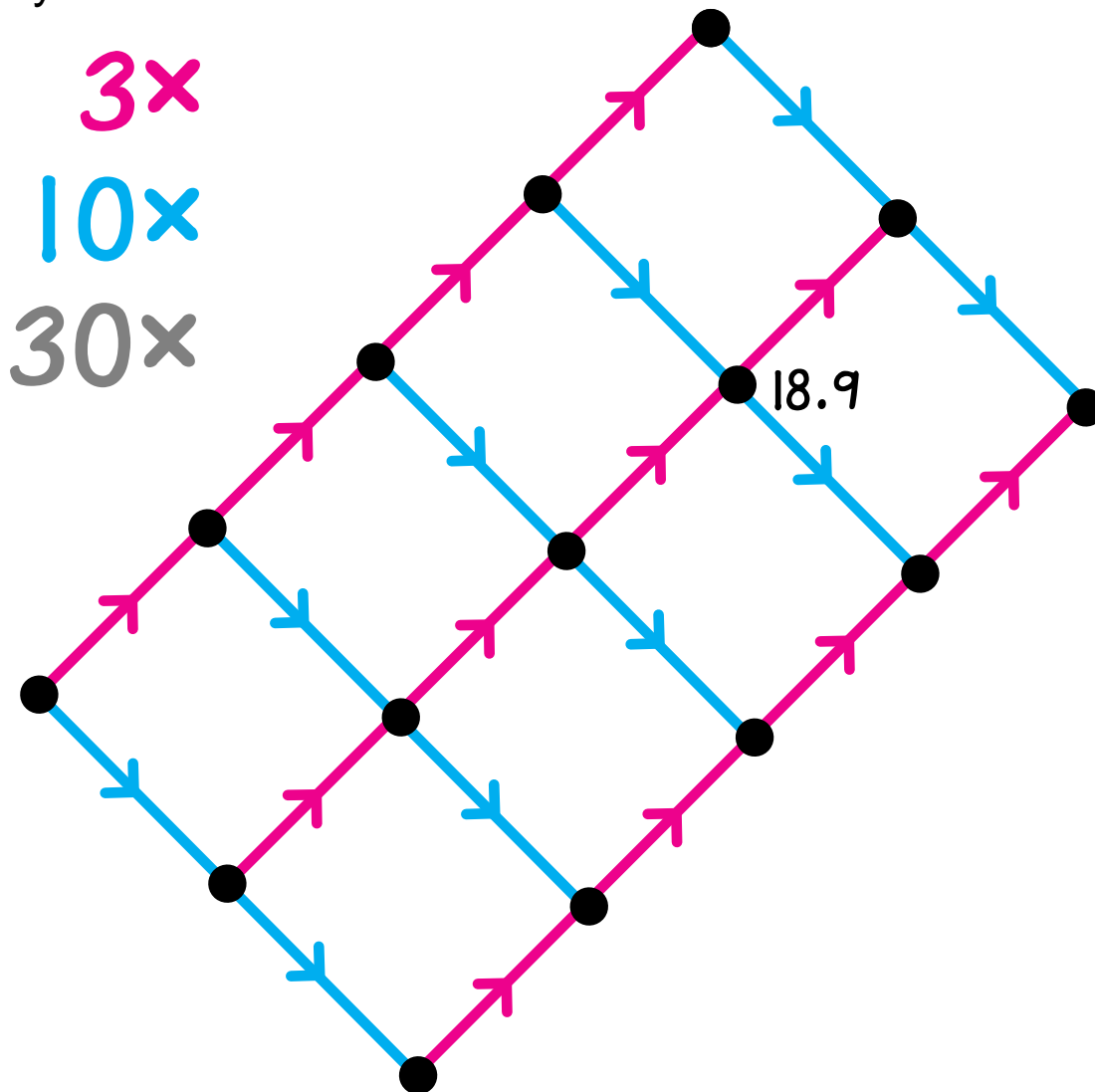
$4 \div 10 =$ _____

$64 \div 20 =$ _____

$8 \div 20 =$ _____

Name _____

Label all of the dots. Use pencil to draw as many 30x arrows as you can.



Use the arrow picture to solve these problems.

$18.9 \div 10 =$ _____

$9 \times 0.21 =$ _____

$18.9 \div 30 =$ _____

$6.3 \div 9 =$ _____

$63 \div 30 =$ _____

$0.63 \div 3 =$ _____

$21 \div 30 =$ _____

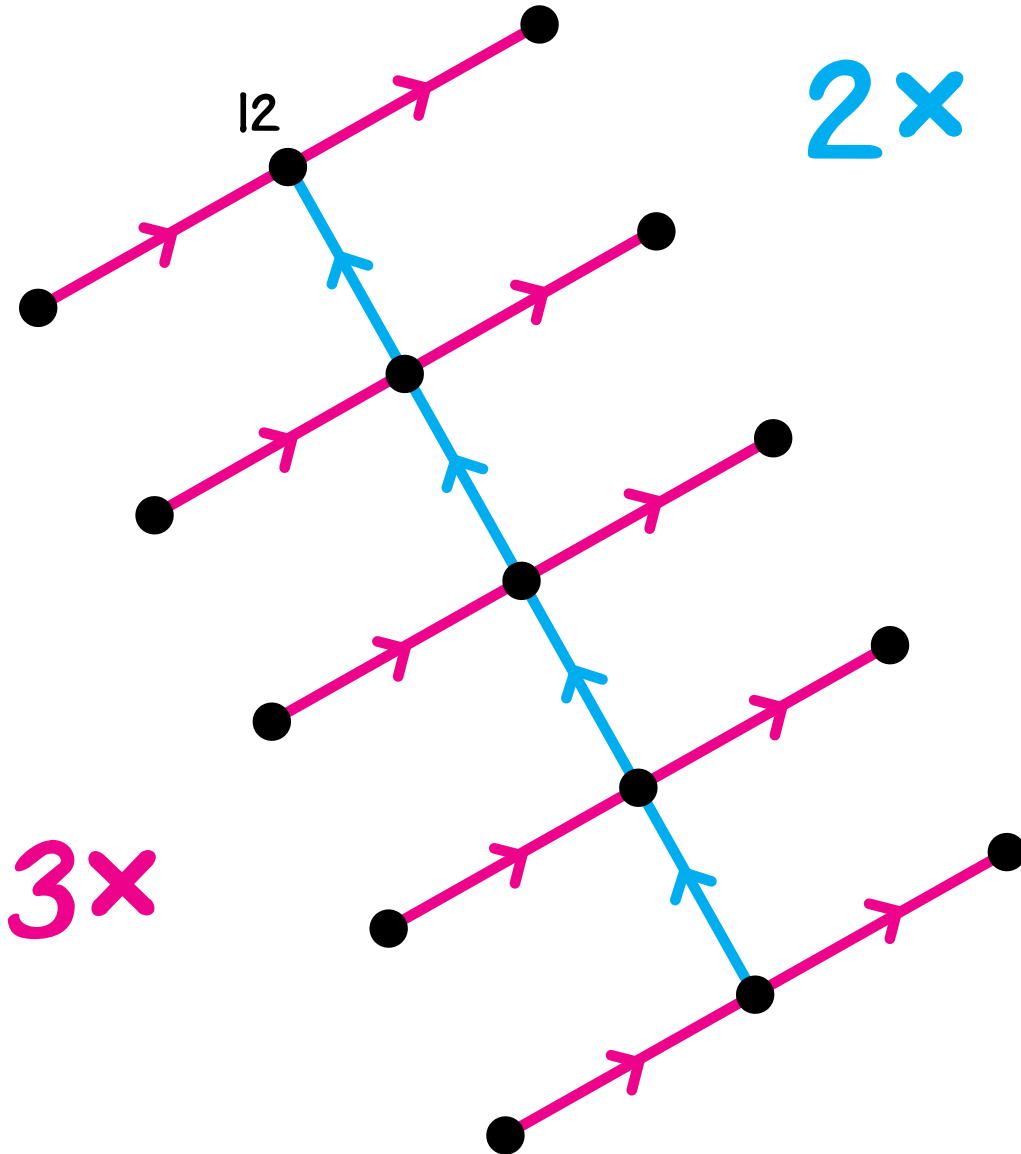
$0.63 \div 9 =$ _____

Name _____

N11(a)

Clue 3

Zip is in this picture.



Zip could be _____, _____, _____, _____, or _____.

Name _____

N11(b)

Clue 4

Zip is one of these numbers.

		■	●	●			=	_____
			●					

		■			●	●	=	_____
					●	●		●

		■	●		●	●	=	_____
					●	●		

		■	●	●	●		=	_____
			●		●			

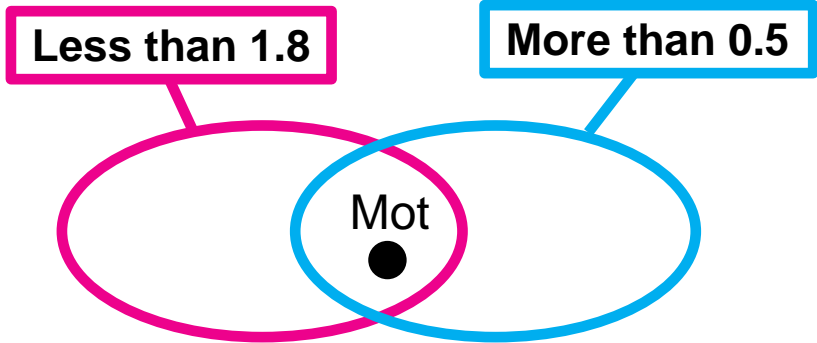
Who is Zip? _____

Name _____

N11(c)

Mot is a secret number.

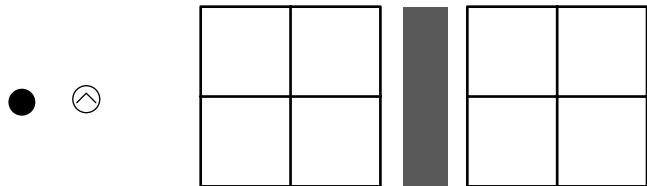
Clue 1



Mot could be _____ and so on.

Clue 2

Mot can be put on this Minicomputer with one positive and one negative checker.



Mot could be _____, _____, _____, _____, _____ or _____.

Clue 3

If you put Mot on the calculator display and press $\oplus \equiv \equiv \equiv \dots$, 4.5 will appear.

Mot is _____.

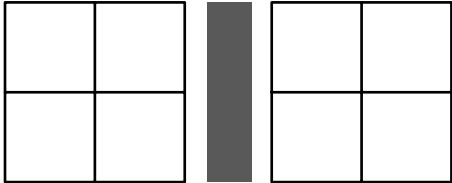
Name _____

N11(d)

Ark is a secret number.

Clue 1

Ark can be put on this Minicomputer with just a ④-checker.



Ark could be _____, _____, _____, _____, _____, _____, _____, or _____.

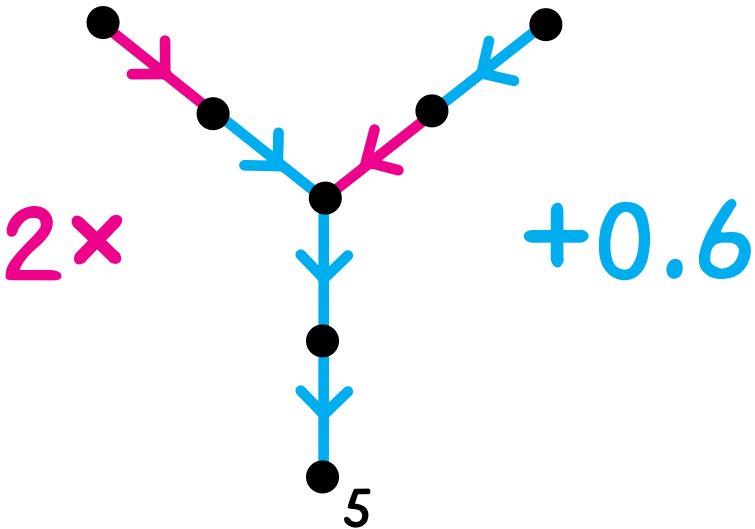
Clue 2

If you put Ark on the calculator display and press $\boxed{+} \boxed{=}$ $\boxed{=}$ $\boxed{=}$... , 24 will appear.

Ark could be _____, _____, _____, _____, or _____.

Clue 3

Ark is in this arrow picture.



Ark is _____.

Name _____

N12	*
-----	---

Build an arrow road from 1 295 to the least possible positive number using arrows for -400 , -40 , and -4 .

-400

-40

-4

1295



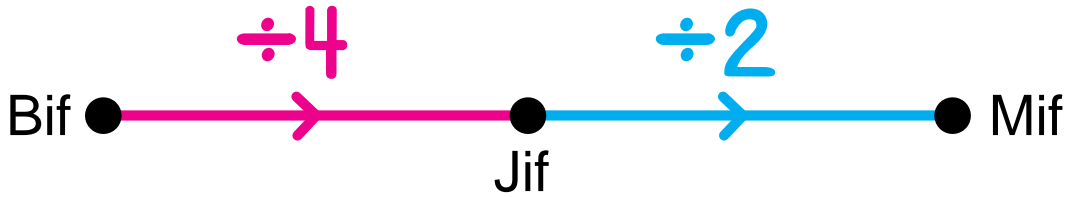
What is your ending number? _____

How many arrows did you use? _____

Name _____

N12	**
-----	----

Complete the table.



Bif	Jif	Mif
24		
240		
	18	
	13	
		7
		70
		9.5
		3.25

Name _____

N12 ***

Roc is a secret number.

Clue 1

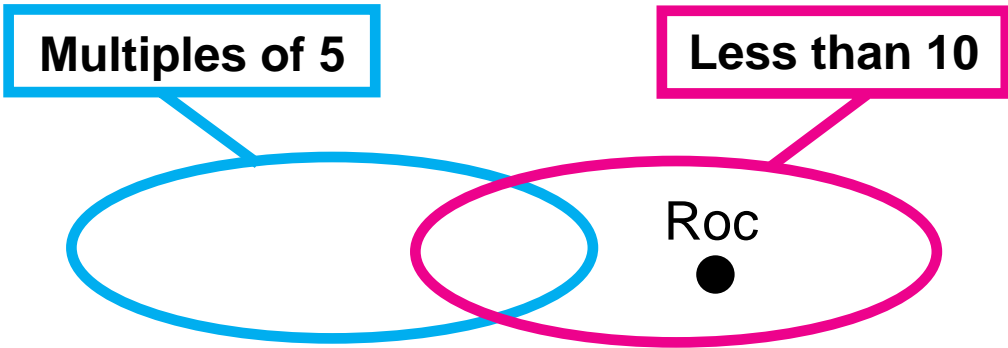
Roc is the ending number of an arrow road starting at 625 and using exactly two red arrows and two blue arrows.

$$\div 5 \qquad -25$$

625
●

Roc could be _____, _____, _____, _____, _____, or _____.

Clue 2



Who is Roc? _____

Name _____

N14

*



Ort could be any of four numbers listed below. Circle them.

72

23

88

163

73

90

358

48



Tro could be any of four numbers listed below. Circle them.

21

51

-31

6

19

-19

-34

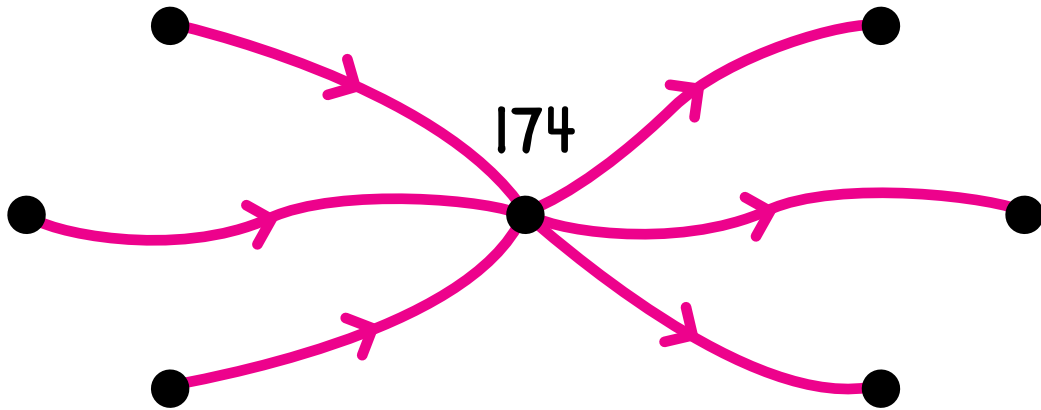
66

Name _____

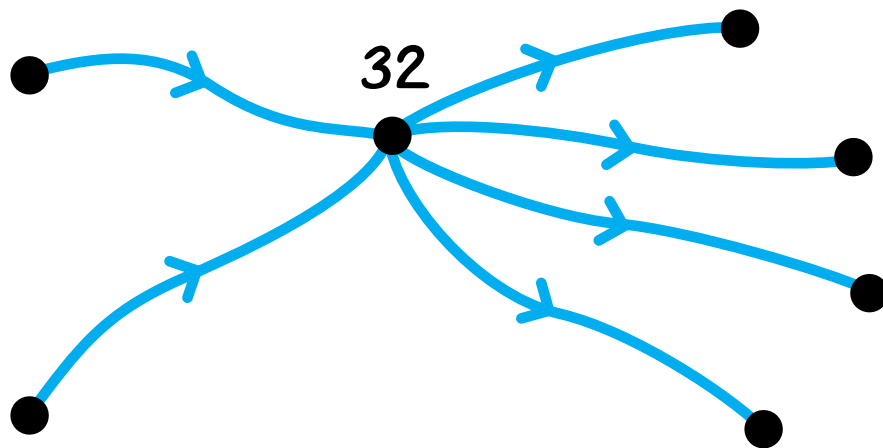
N14 **

Label the dots. Many solutions are possible.

$$\boxed{+} \boxed{5} \boxed{=} \dots$$



$$\boxed{+} \boxed{3} \boxed{=} \dots$$



Name _____

N14 ***

Jot is a secret number.

Clue 1

$$\boxed{-} \boxed{5} \boxed{=} \dots$$



Jot could be _____, _____, _____, _____, _____, _____, and so on.

What is the least positive number Jot could be? _____

What is the greatest negative number Jot could be? _____

Clue 2

Jot is a positive prime number less than 30.

Jot could be _____, _____, or _____.

Clue 3

$$\boxed{-} \boxed{3} \boxed{=} \dots$$



Who is Jot? _____

Name _____

Fo is a secret number.

Clue 1

$$\boxed{+} \boxed{6} \boxed{=} \dots$$



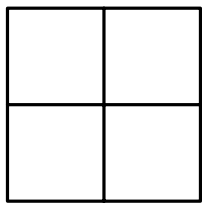
Fo could be _____, _____, _____, _____, _____, _____, and so on.

What is the least positive number Fo could be? _____

What is the greatest negative number Fo could be? _____

Clue 2

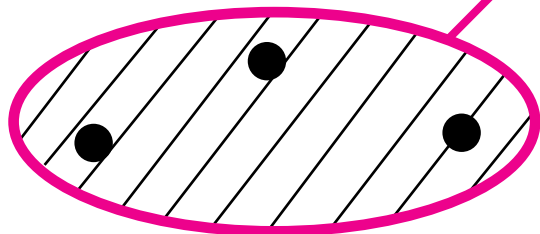
Fo can be put on this Minicomputer using exactly four regular checkers.



Fo could be _____, _____, or _____.

Clue 3

Positive divisors of Fo



Who is Fo? _____

Name _____

N15

*

Circle the greatest number. Draw a box around the least number.

$$2 \times 98$$

$$2 \times 99$$

$$2 \times 98.6$$

Complete.

$$\begin{array}{r} 98 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 98.6 \\ \times 2 \\ \hline \end{array}$$

Circle the greatest number. Draw a box around the least number.

$$4 \times 845.9$$

$$4 \times 846$$

$$4 \times 845$$

Complete.

$$\begin{array}{r} 845.9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 846 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 845 \\ \times 4 \\ \hline \end{array}$$

Circle the greatest number. Draw a box around the least number.

$$8 \times 2$$

$$8 \times 1.24$$

$$8 \times 1$$

Complete.

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1.24 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

Name _____

N15

**

Circle the greatest number. Draw a box around the least number.

7×68

7×67.50

7×69

Complete.

$$\begin{array}{r} 68 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 67.50 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ \times 7 \\ \hline \end{array}$$

Circle the greatest number. Draw a box around the least number.

6×2.97

6×2

6×3

Complete.

$$\begin{array}{r} 2.97 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

Circle the greatest number. Draw a box around the least number.

9×23.65

9×23

9×23.47

9×24

Complete.

$$\begin{array}{r} 23.65 \\ \times 9 \\ \hline \end{array}$$

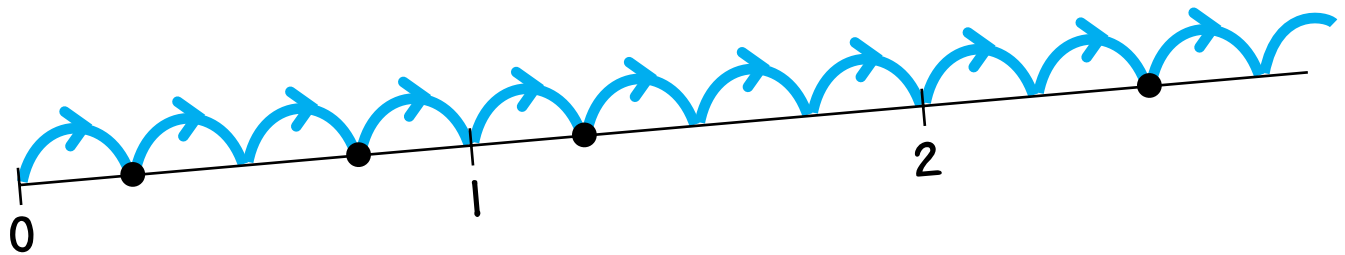
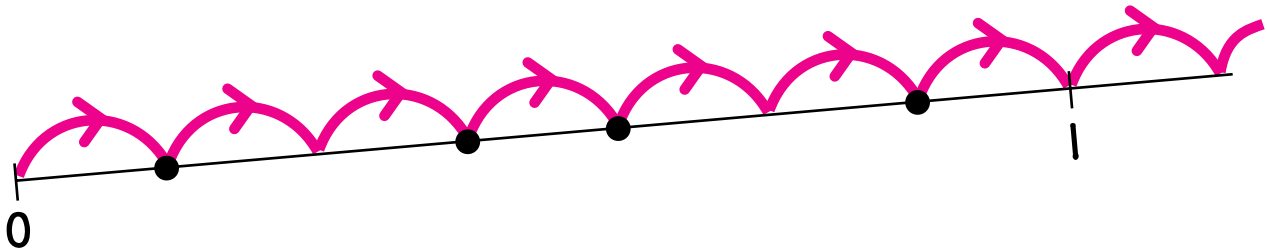
$$\begin{array}{r} 23 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 23.47 \\ \times 9 \\ \hline \end{array}$$

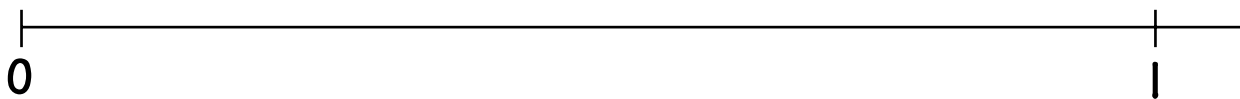
$$\begin{array}{r} 24 \\ \times 9 \\ \hline \end{array}$$

Name _____

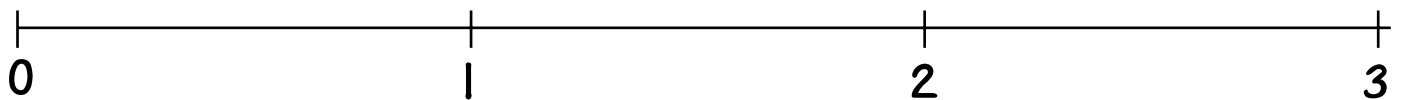
Label the dots on each number line.



Use a ruler to locate $\frac{1}{5}$ and $\frac{3}{5}$ on this number line.

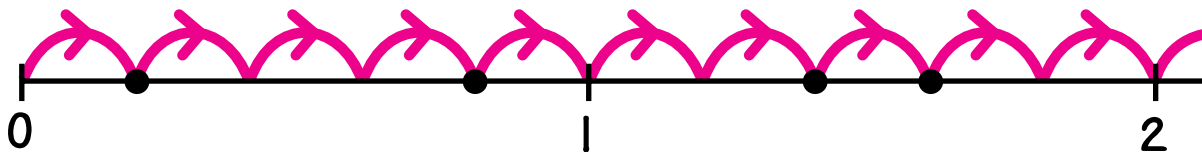


Use a ruler to locate $\frac{1}{3}$, $\frac{2}{3}$, $\frac{5}{3}$, and $\frac{7}{3}$ on this number line.



Name _____

Label the dots.



Place these numbers in the string picture.

$$\frac{4}{5}$$

$$\frac{7}{5}$$

$$\frac{13}{5}$$

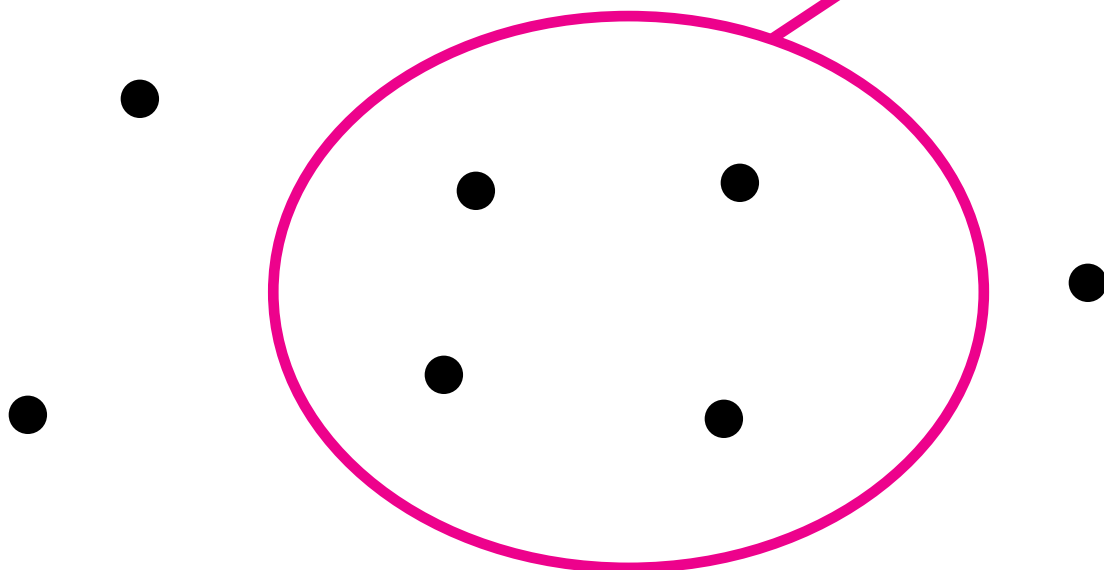
$$\frac{7}{8}$$

$$\frac{13}{8}$$

$$\frac{7}{3}$$

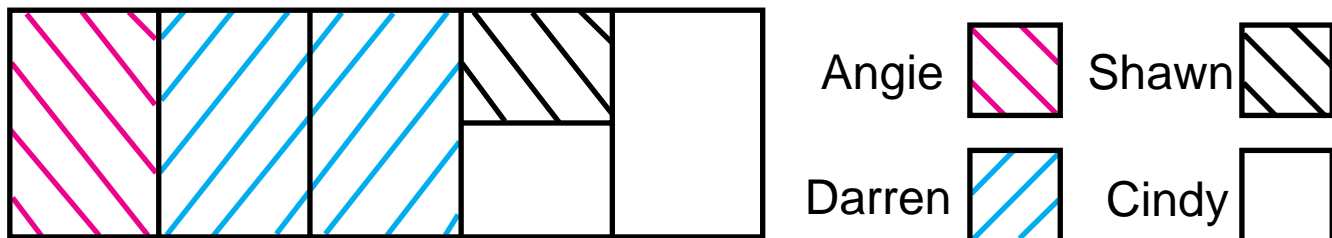
$$\frac{2}{3}$$

More than 1



Name _____

Angie, Darren, Shawn, and Cindy mow Mr. Hillman's large lawn. The picture shows the part of the lawn each child mows.



What fraction of the lawn did each child mow?

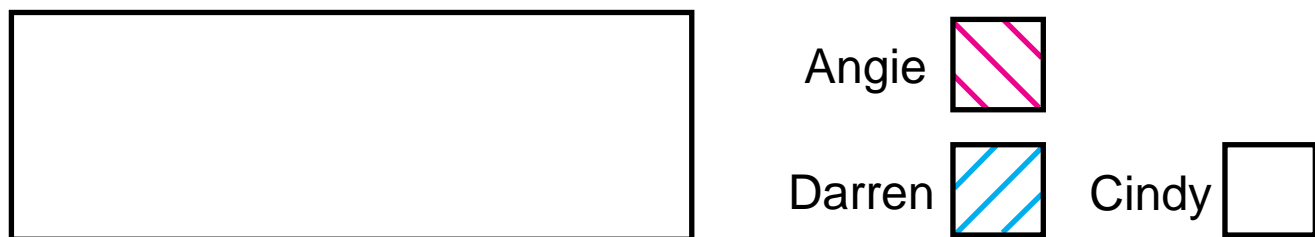
Angie _____ Darren _____ Shawn _____ Cindy _____

If Mr. Hillman pays the children \$20, how much money should each child receive?

Angie _____ Darren _____ Shawn _____ Cindy _____

Angie, Darren, and Cindy mow the Grant's lawn for \$18. The children divide the money fairly according to how much of the lawn each child mows. Angie receives \$6, Darren receives \$3, and Cindy receives the rest.

How much money does Cindy receive? _____
Show the amount of lawn each child mows.



What fraction of the lawn does each child mow?

Angie _____ Darren _____ Cindy _____

Name _____

N16 *****

$$4 < \text{Lea} < 5$$

Fill in the boxes for fractions Lea could be.

$$\frac{\square}{3}$$

$$\frac{\square}{7}$$

$$\frac{\square}{10}$$

List four other fractions Lea could be: _____, _____, _____, or _____.

Place each fraction in a box.

$$\frac{5}{2}$$

$$\frac{13}{4}$$

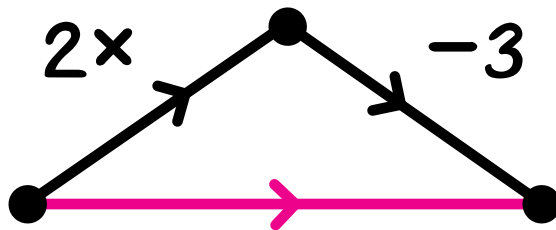
$$\frac{6}{11}$$

$$\frac{19}{14}$$

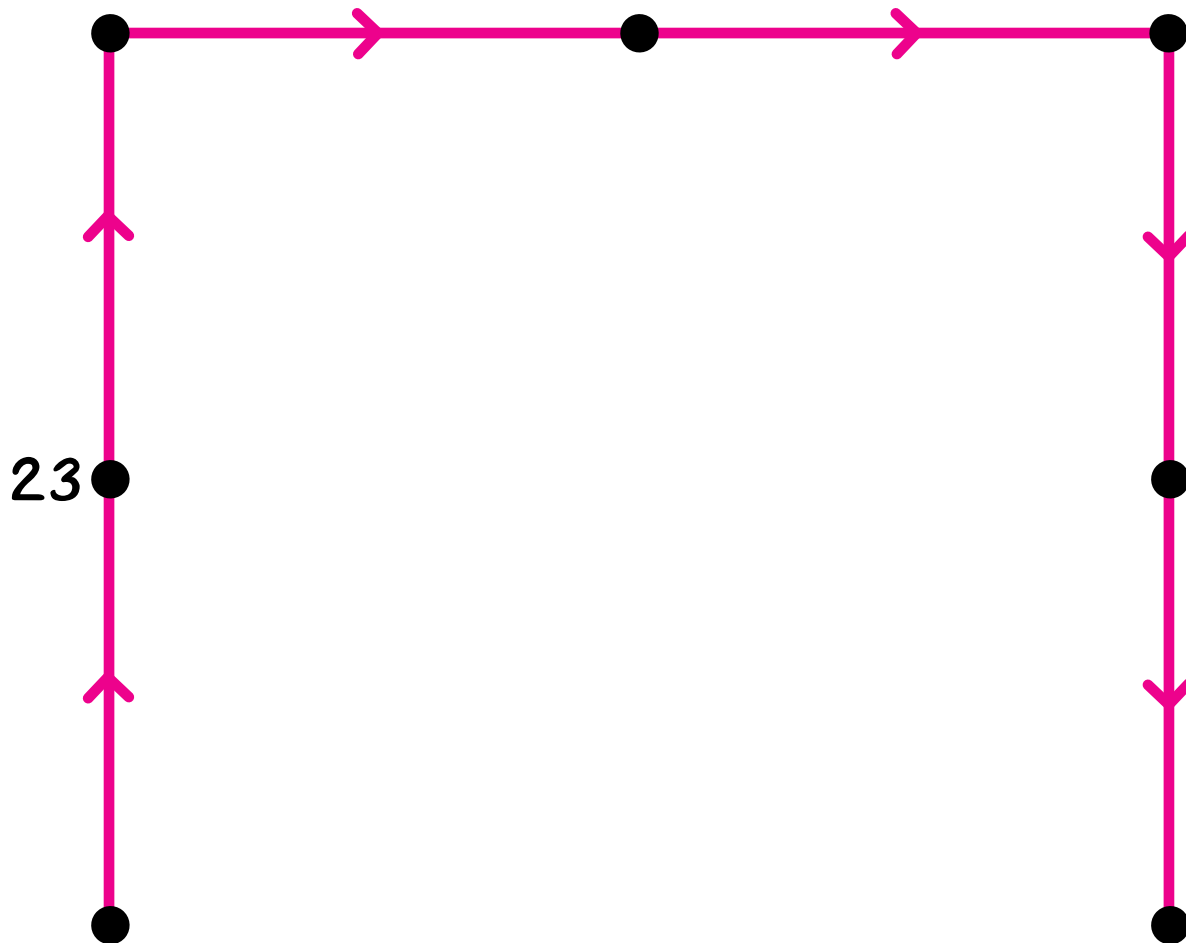
$$0 < \square < 1 < \square < 2 < \square < 3 < \square < 4$$

Name _____

Use this rule for red arrows...

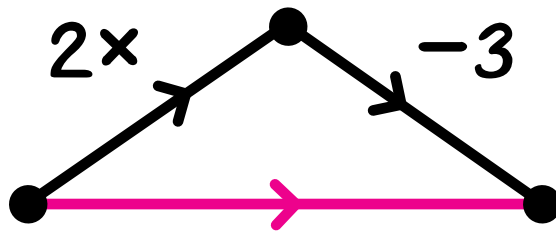


to label the dots in the picture below.

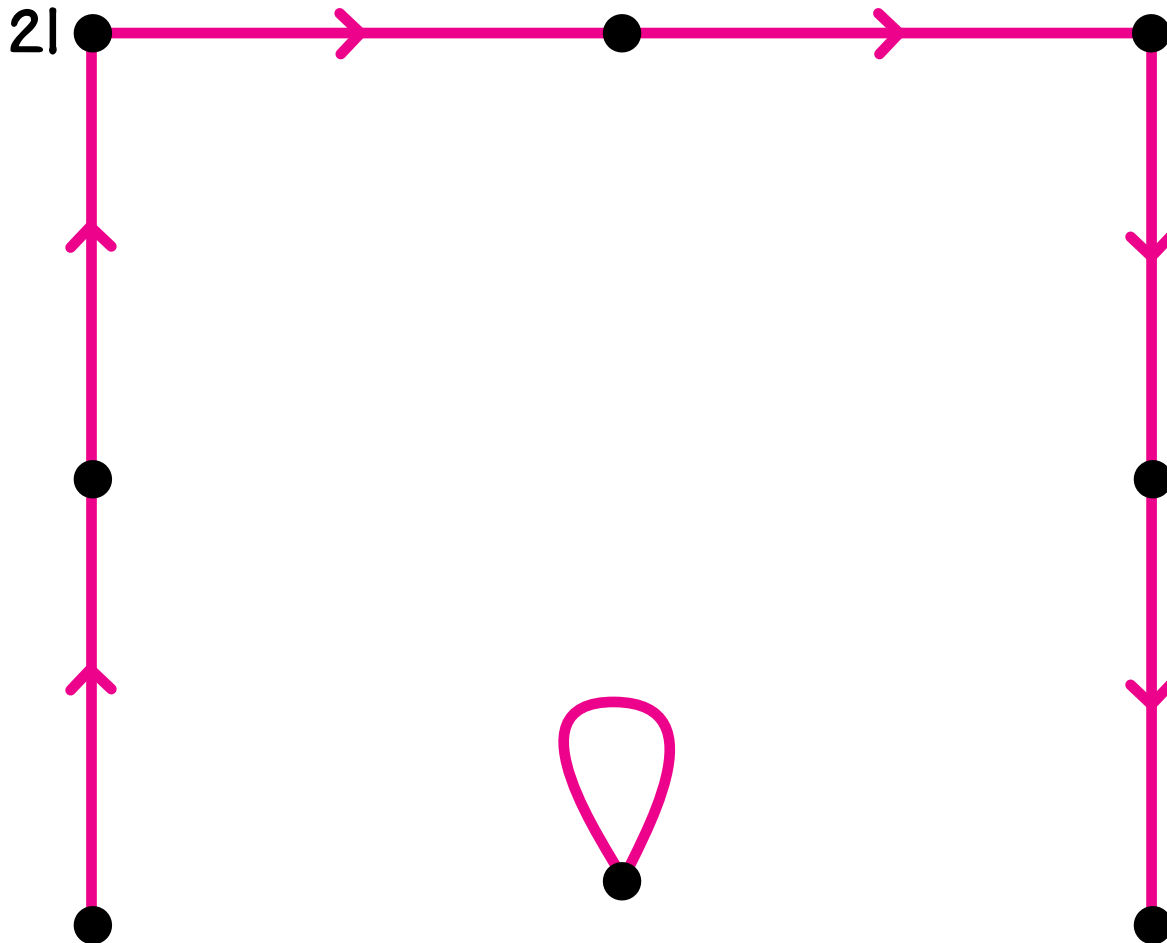


Name _____

Use this rule for red arrows...

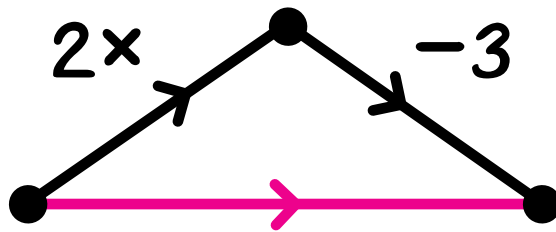


to label the dots in the picture below.

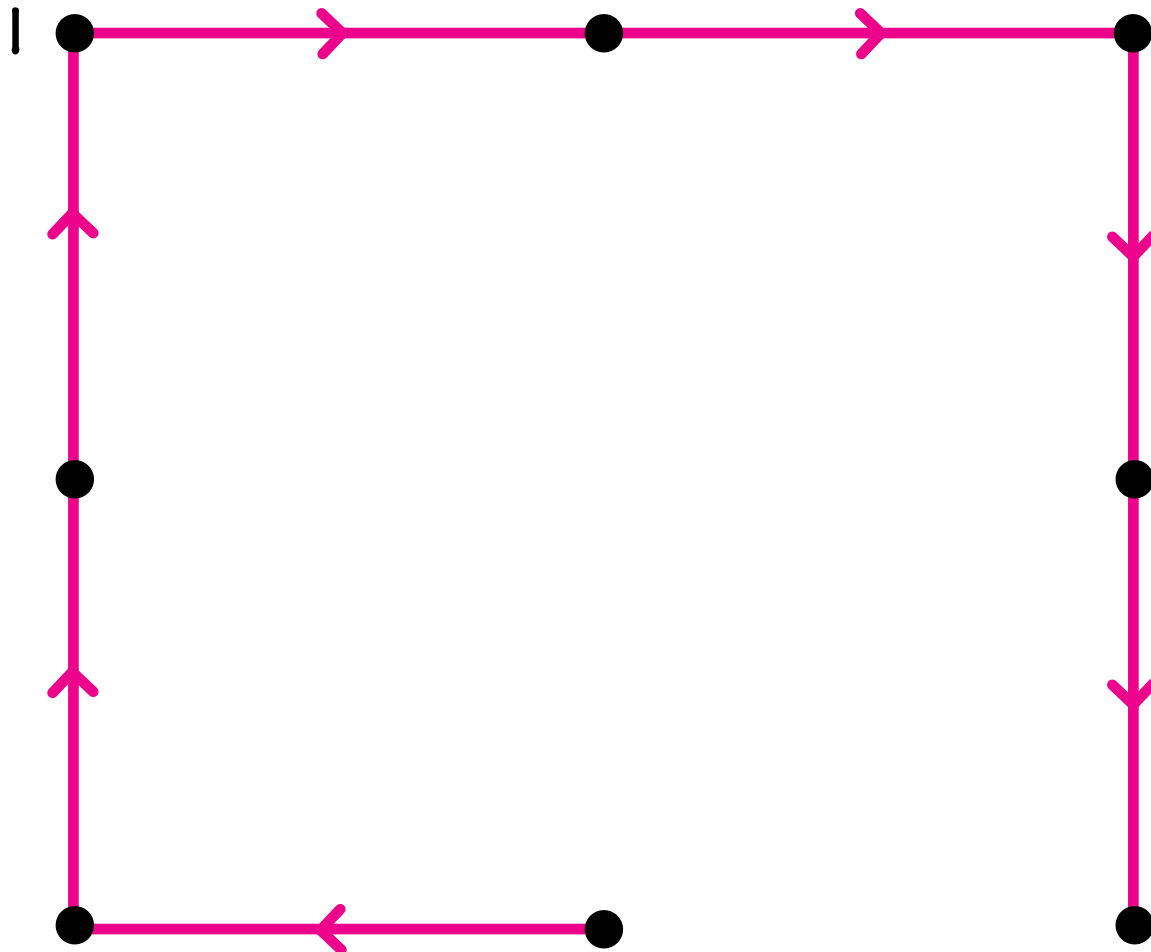


Name _____

Use this rule for red arrows...

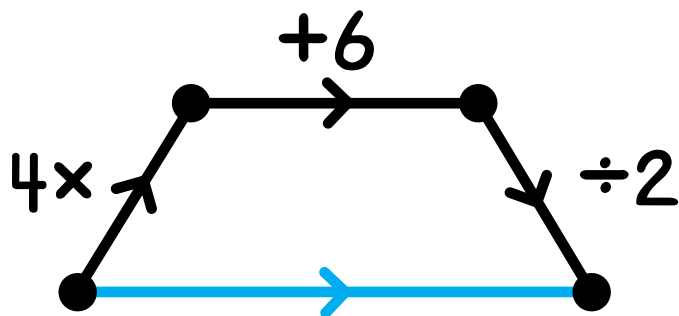


to label the dots in the picture below.



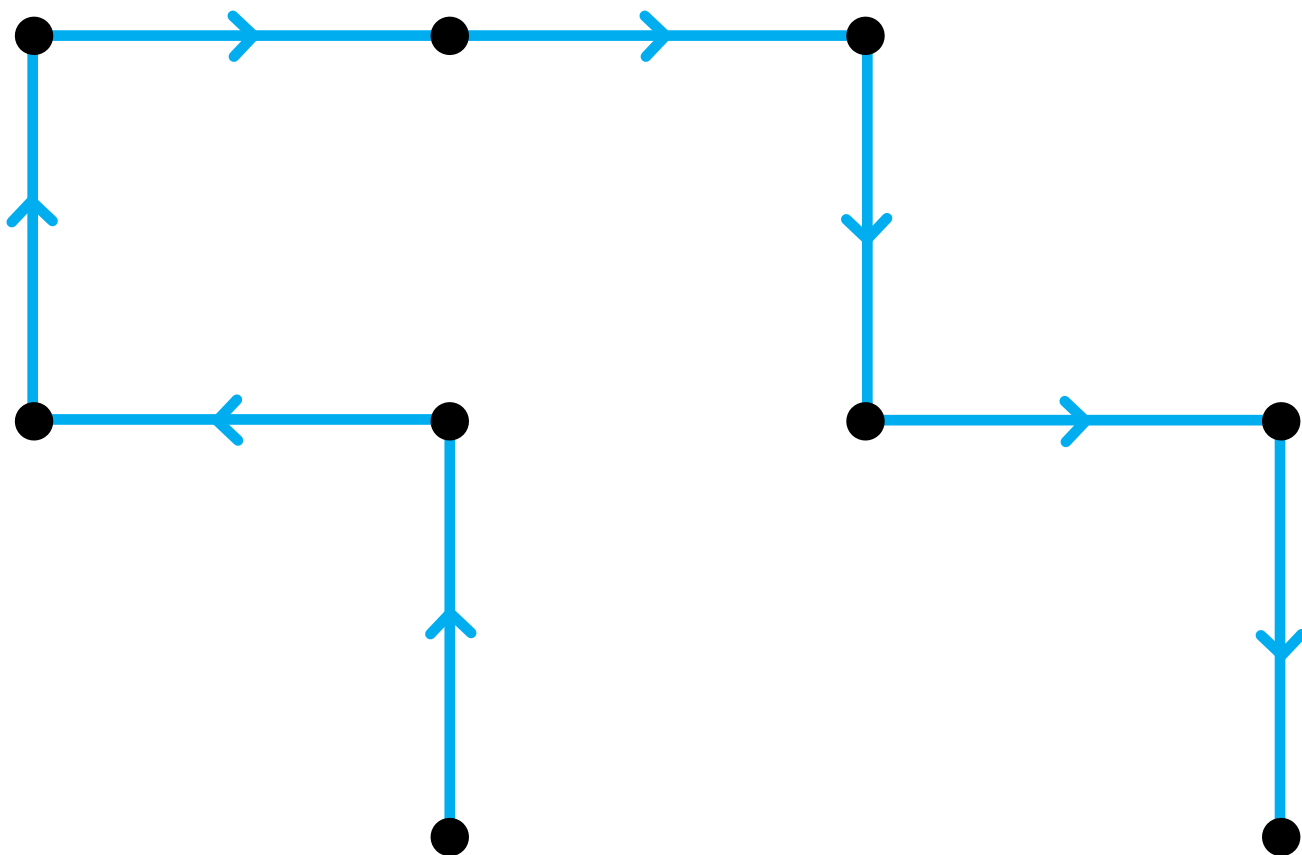
Name _____

Use this rule for blue arrows...



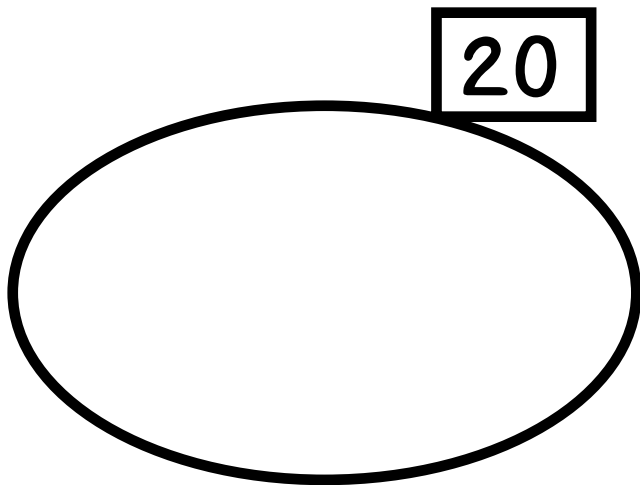
to label the dots in the picture below.

29



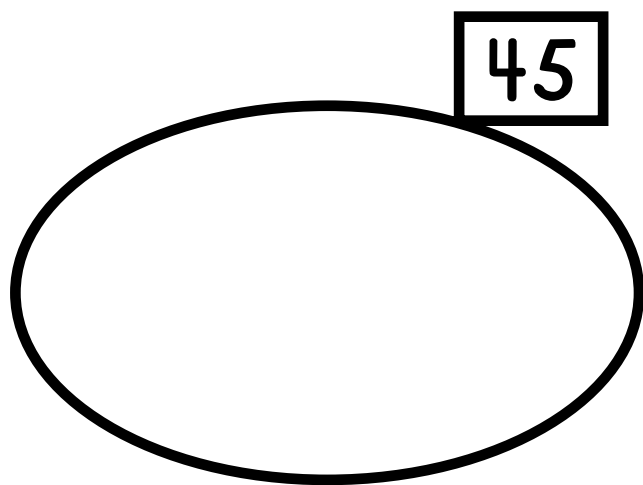
Name _____

A zookeeper feeds 5 monkeys.
Complete the number sentences.



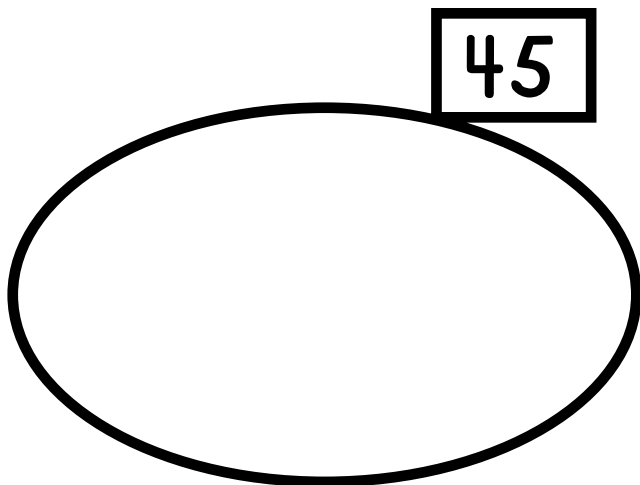
20

$$\frac{3}{5} \times 20 = \underline{\quad}$$



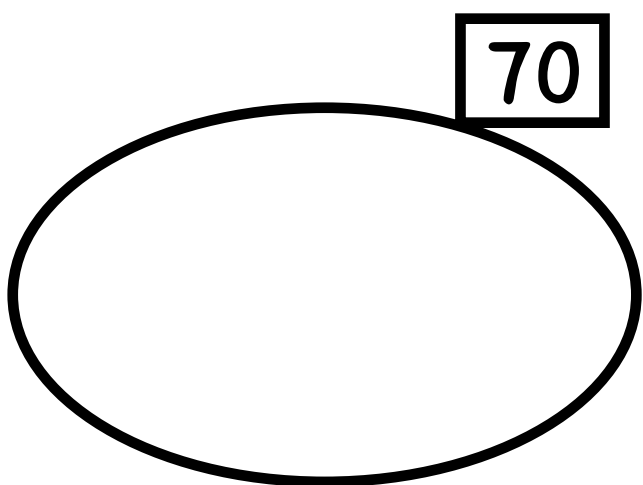
45

$$\frac{3}{5} \times 45 = \underline{\quad}$$



45

$$\frac{2}{5} \times 45 = \underline{\quad}$$



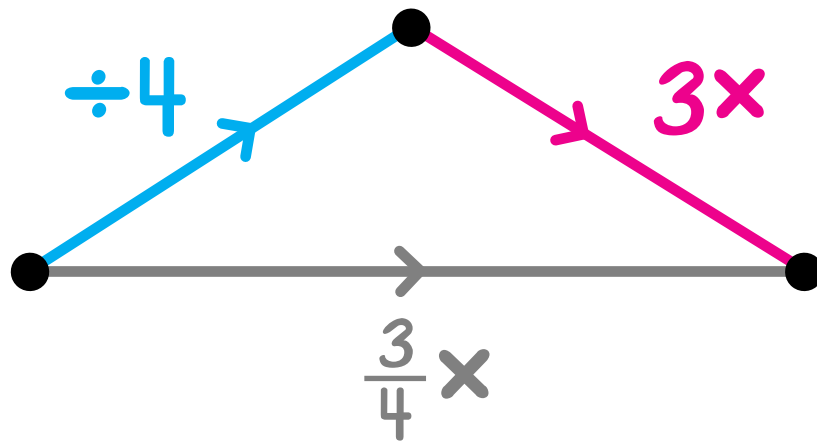
70

$$\frac{2}{5} \times 70 = \underline{\quad}$$

Name _____

N19

**



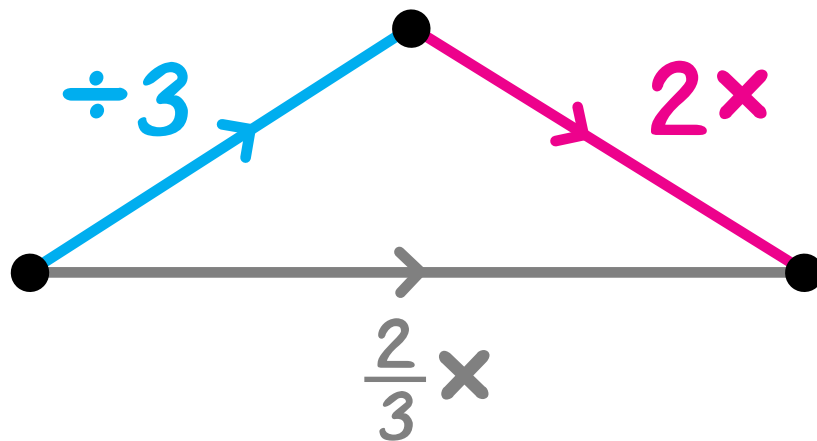
Complete.

$$\frac{3}{4} \times 24 = \underline{\hspace{2cm}}$$

$$\frac{3}{4} \times 28 = \underline{\hspace{2cm}}$$

$$\frac{3}{4} \times 52 = \underline{\hspace{2cm}}$$

$$\frac{3}{4} \times 280 = \underline{\hspace{2cm}}$$



Complete.

$$\frac{2}{3} \times 24 = \underline{\hspace{2cm}}$$

$$\frac{2}{3} \times 45 = \underline{\hspace{2cm}}$$

$$\frac{2}{3} \times 30 = \underline{\hspace{2cm}}$$

$$\frac{2}{3} \times 450 = \underline{\hspace{2cm}}$$

Name _____

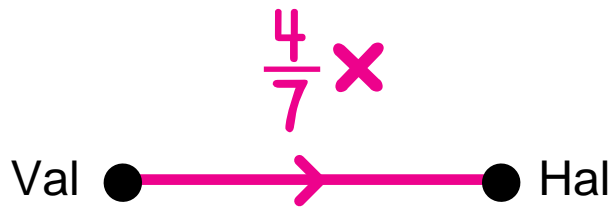
Val and Hal are secret numbers.

Clue 1

Val is a multiple of 7 between 40 and 80.

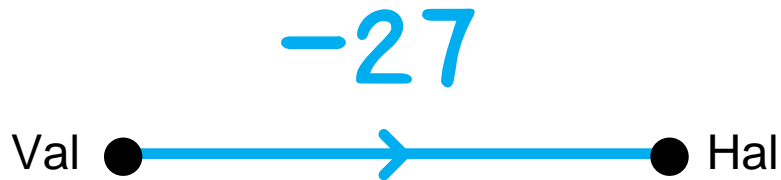
Val could be _____, _____, _____, _____, _____, or _____.

Clue 2



Val	Hal

Clue 3



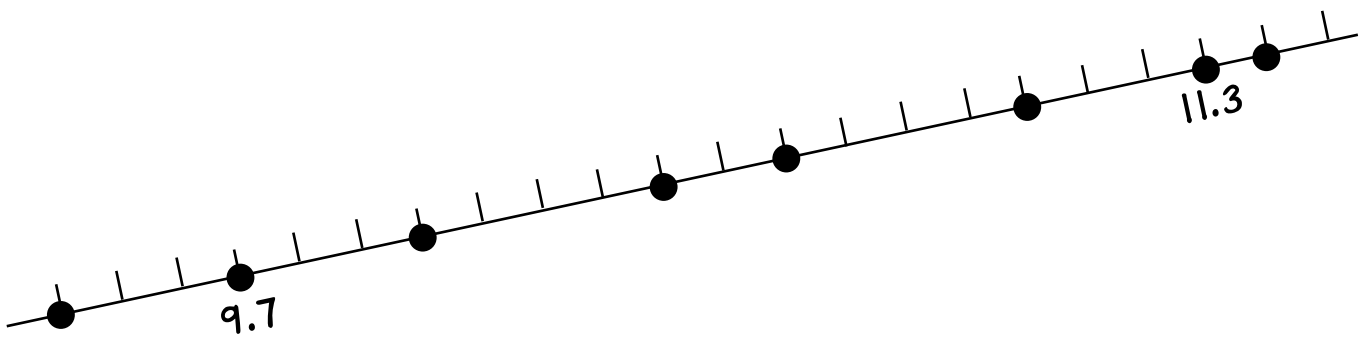
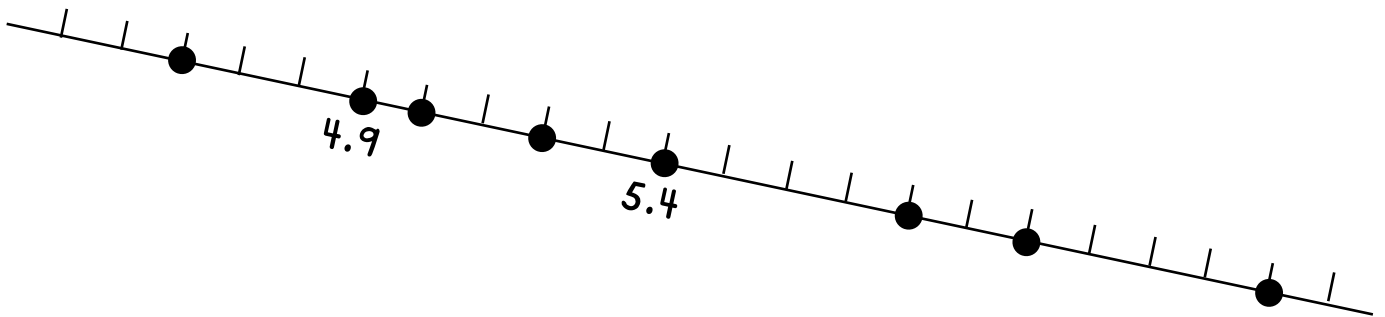
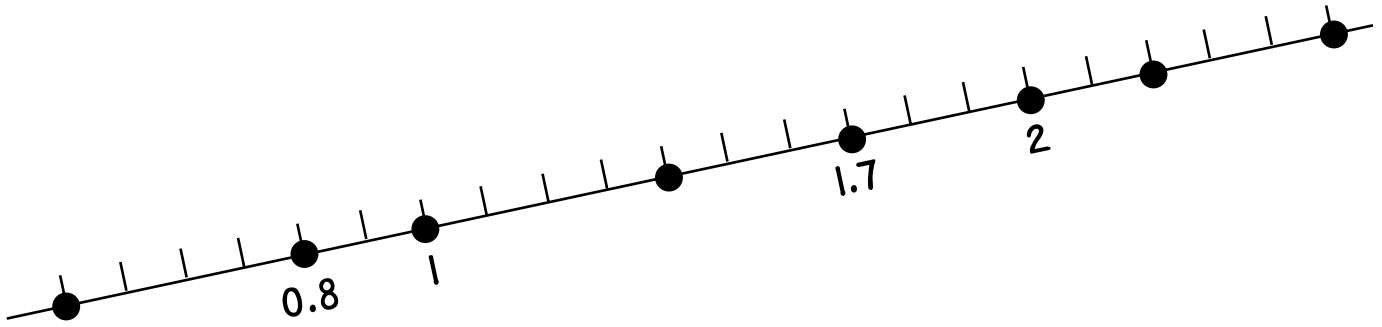
Who is Val? _____

Who is Hal? _____

Name _____

N20 *

Label the dots.



Name _____

N20

**

Complete these calculations.

$$\begin{array}{r} 1.5 \\ +2.7 \\ \hline \end{array}$$

$$1.5 + 0.7 = \underline{\quad}$$

$$\begin{array}{r} 10.8 \\ +4.9 \\ \hline \end{array}$$

$$5.8 - 0.9 = \underline{\quad}$$

$$\begin{array}{r} 236.7 \\ +95.8 \\ \hline \end{array}$$

$$0.7 + 0.8 = \underline{\quad}$$

$$\begin{array}{r} 56.7 \\ +56.7 \\ \hline \end{array}$$

$$2 - 0.7 = \underline{\quad}$$

Name _____

N20 ***

Complete.

$10 \times \square = 45$

$1.6 + \square = 2.5$

$\square \div 2 = 0.8$

$\square \div 3 = 0.7$

$2 - \square = 0.4$

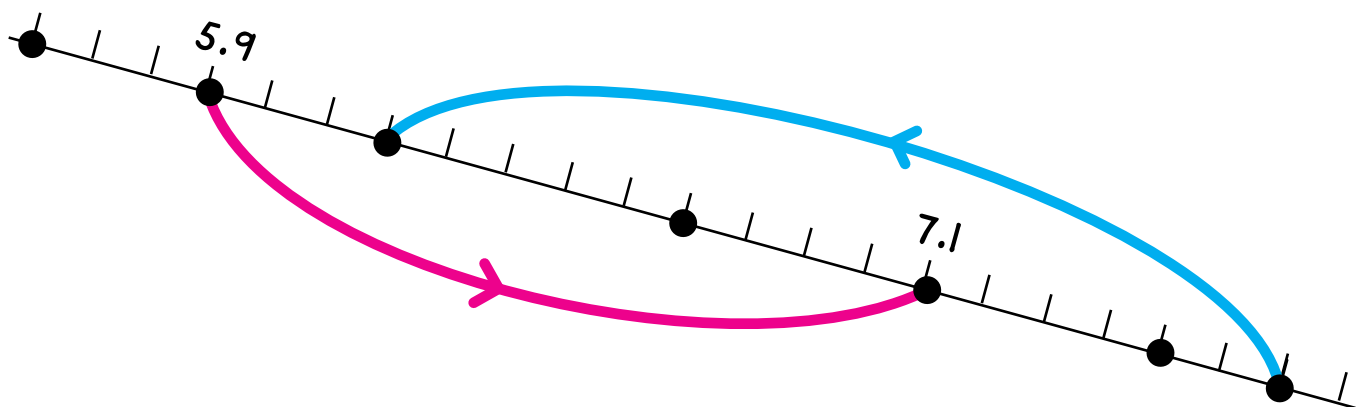
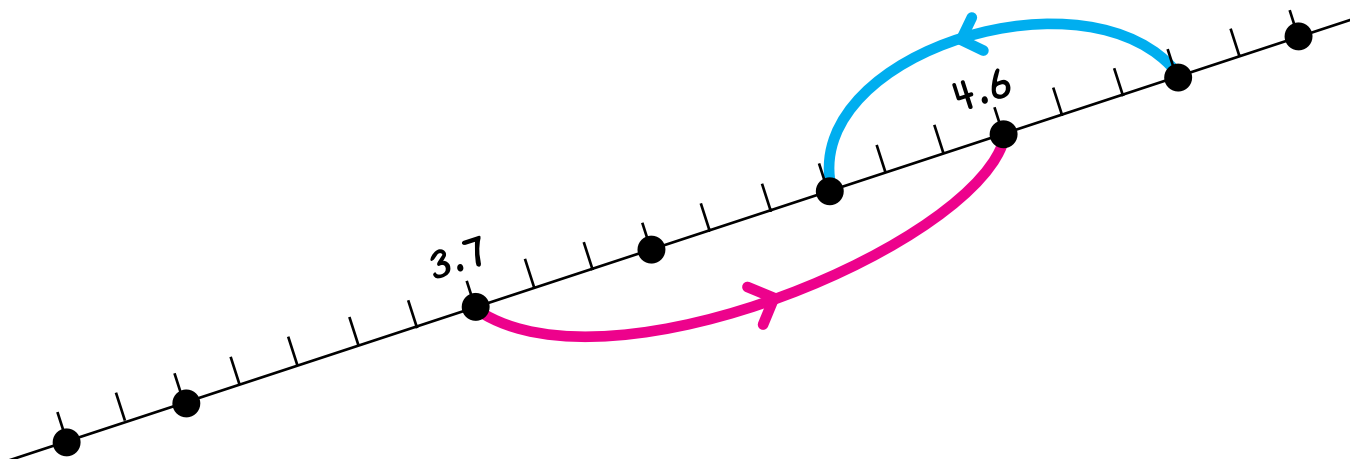
$\square \div 10 = 3.2$

Write at least six more names for the number 0.3. One is done for you.

$1 - 0.7$

Name _____

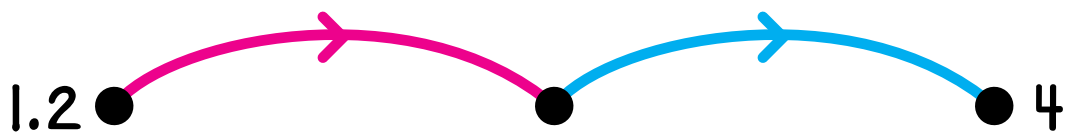
Label the dots and the arrows in each picture. Arrows are for + or - some number.



Draw three +0.5 arrows in green.

Name _____

Pair the tags.



$+1.3$

-0.8

$\div 2$

$8\times$

$4\times$

$\div 2$

-0.7

$+1.5$

$+6.8$

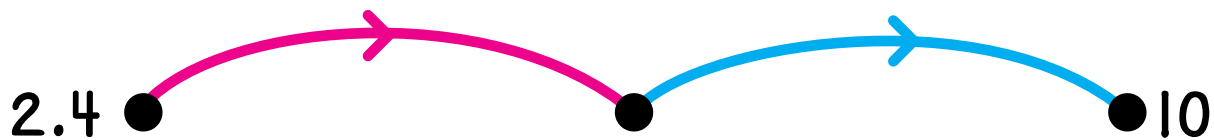
$\div 3$



$10\times$



$+3.4$

Name _____

Complete the chart.



	
2×	
÷2	
3×	
÷3	
-0.9	
-1.4	
+2.6	

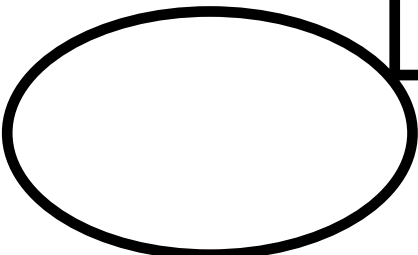
	
	2×
	÷2
	5×
	÷10
	-7.4
	+7.4

Name _____

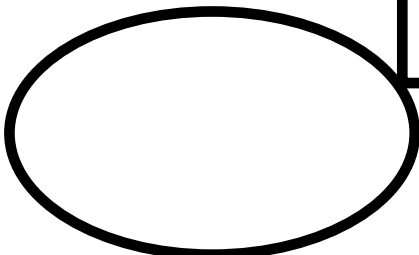
N23

*

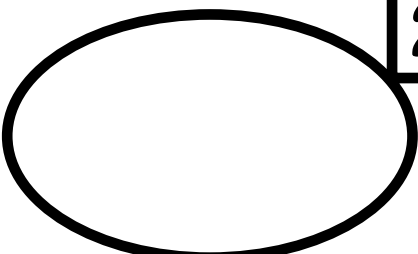
A zookeeper feeds 4 monkeys. Bobo eats 3 shares.
Complete the number sentences.



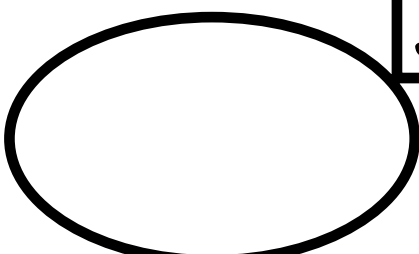
$\frac{3}{4} \times 8 = \underline{\hspace{2cm}}$



$\frac{3}{4} \times 12 = \underline{\hspace{2cm}}$

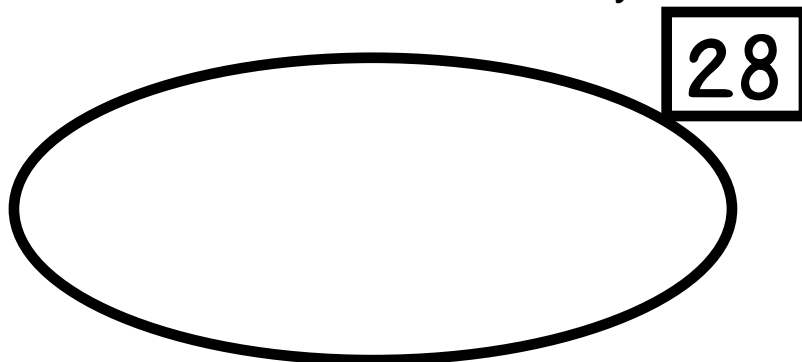


$\frac{3}{4} \times 20 = \underline{\hspace{2cm}}$



$\frac{3}{4} \times 36 = \underline{\hspace{2cm}}$

A zookeeper feeds 28 bananas to 7 monkeys.



Complete.

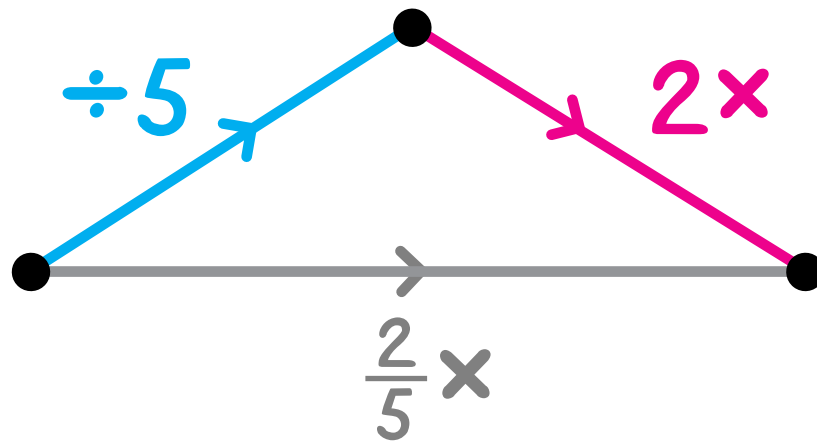
$\frac{3}{7} \times 28 = \underline{\hspace{2cm}}$

$\frac{4}{7} \times 28 = \underline{\hspace{2cm}}$

$\frac{1}{7} \times 28 = \underline{\hspace{2cm}}$

$\frac{7}{7} \times 28 = \underline{\hspace{2cm}}$

Name _____



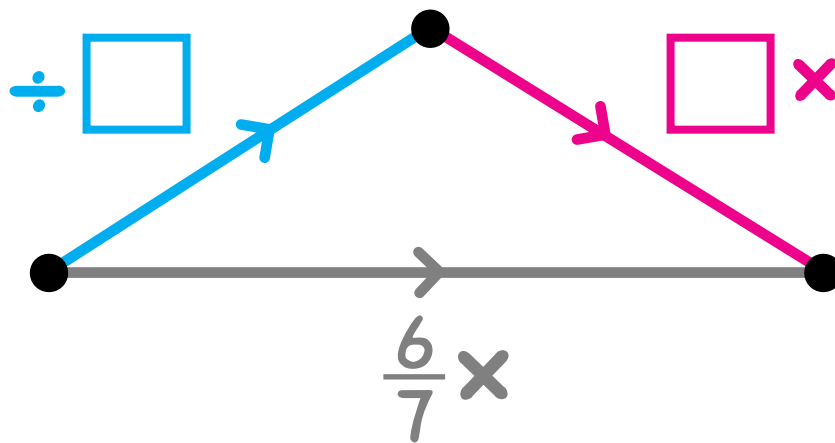
Complete.

$$\frac{2}{5} \times 15 = \underline{\hspace{2cm}}$$

$$\frac{2}{5} \times 50 = \underline{\hspace{2cm}}$$

$$\frac{2}{5} \times 35 = \underline{\hspace{2cm}}$$

$$\frac{2}{5} \times \underline{\hspace{2cm}} = 50$$



Complete.

$$\frac{6}{7} \times 28 = \underline{\hspace{2cm}}$$

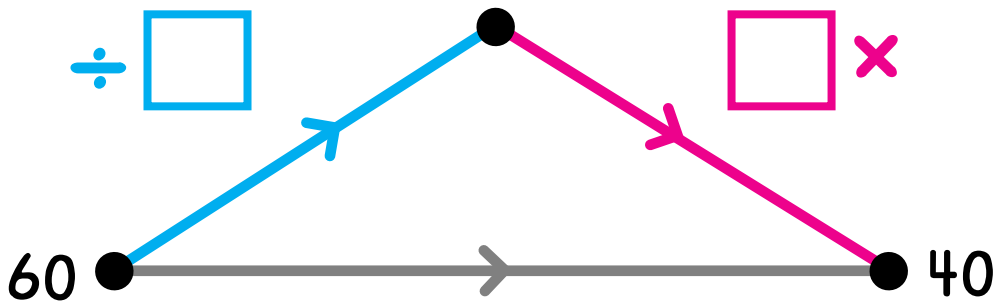
$$\frac{6}{7} \times \underline{\hspace{2cm}} = 42$$

$$\frac{6}{7} \times 42 = \underline{\hspace{2cm}}$$

$$\frac{6}{7} \times \underline{\hspace{2cm}} = 54$$

Name _____

N23 ***



Complete the chart.

$\div 6$	$\square \times$
$\div 30$	$\square \times$
$\div \square$	$2 \times$
$\div \square$	$8 \times$
$\div \square$	$10 \times$

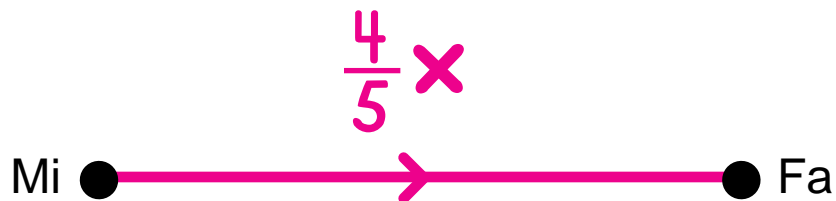
Write at least three names for the gray arrow.

Name _____

N23 ****

Mi and Fa are two secret whole numbers.

Clue 1



Complete this chart.

Mi								
Fa								
Mi+Fa								

...

What do you notice about $Mi + Fa$? Write your answer below.

Clue 2

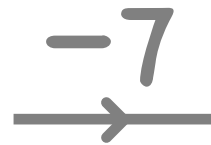
$$Mi + Fa = 81$$

Who is Mi? _____

Who is Fa? _____

Name _____

Build an arrow road from 930 to the least possible positive number using these arrows.



930
●

Pam is planning a 930 km long hike. She hikes 7 km in one hour. Use your arrow picture to calculate how many hours she will walk. About how many hours will she walk? _____

Name _____

$$365 \div 5 = 73$$

Complete.

$370 \div 5 = \square$

$360 \div 5 = \square$

$390 \div 5 = \square$

$350 \div 5 = \square$

$\square \div 5 = 76$

$\square \div 5 = 69$

$$480 \div 8 = \square$$

Complete.

$488 \div 8 = \square$

$472 \div 8 = \square$

$520 \div 8 = \square$

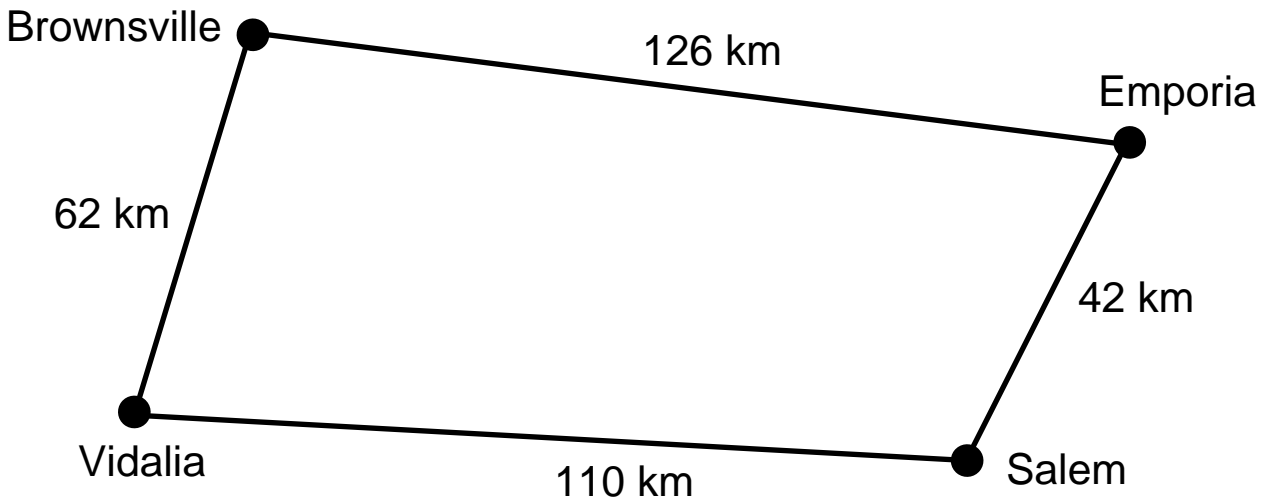
$\square \div 8 = 57$

$560 \div 8 = \square$

$\square \div 8 = 54$

Name _____

N24 ***



Phil lives in Brownsville and is planning a round-trip bicycle ride to visit Emporia, Salem, Vidalia, and then return to Brownsville. What distance will Phil bicycle? _____

Draw an arrow road to calculate the number of hours he must bicycle if he rides 14 km per hour.

About how many hours must he bicycle? _____

If he rides 6 hours per day, about how many days will he travel? _____

Name _____

N24 ****

The distance around the Earth is about 45 000 km. If an airplane travels 1 300 km per hour, calculate the number of hours of flying time it takes to fly around the world. You may use an arrow road.

45 000 km

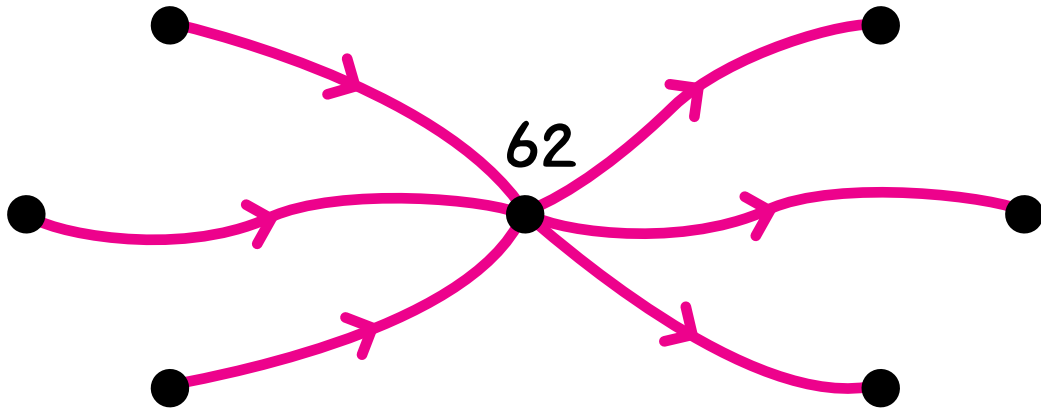


About how many hours? _____

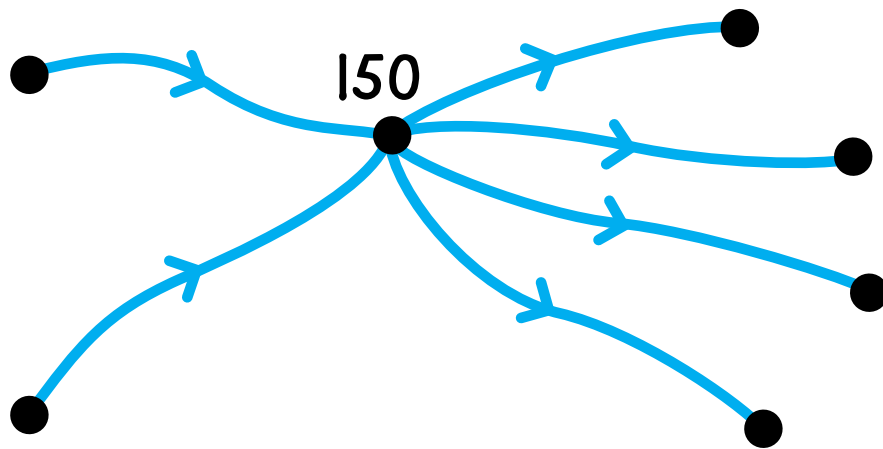
Name _____

Label the dots. Many solutions are possible.

$$\boxed{+} \boxed{4} \boxed{=} \dots$$



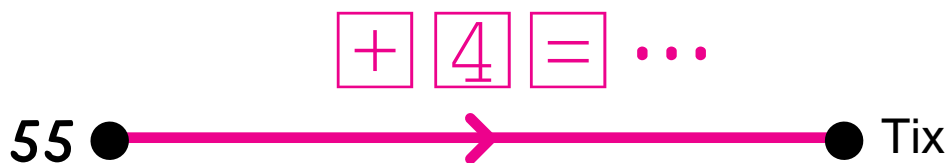
$$\boxed{-} \boxed{3} \boxed{=} \dots$$



Name _____

Tix is a secret number.

Clue 1



Tix could be _____, _____, _____, _____, _____, _____,
_____, _____, _____, _____, and so on.

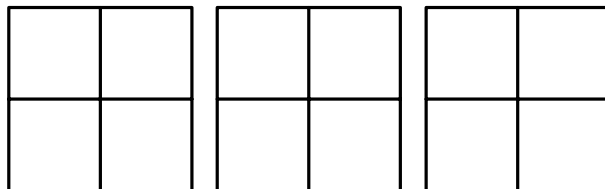
Clue 2

Tix is between 190 and 210.

Tix could be _____, _____, _____, _____, or _____.

Clue 3

Tix can be put on this Minicomputer using exactly one positive checker and one negative checker.

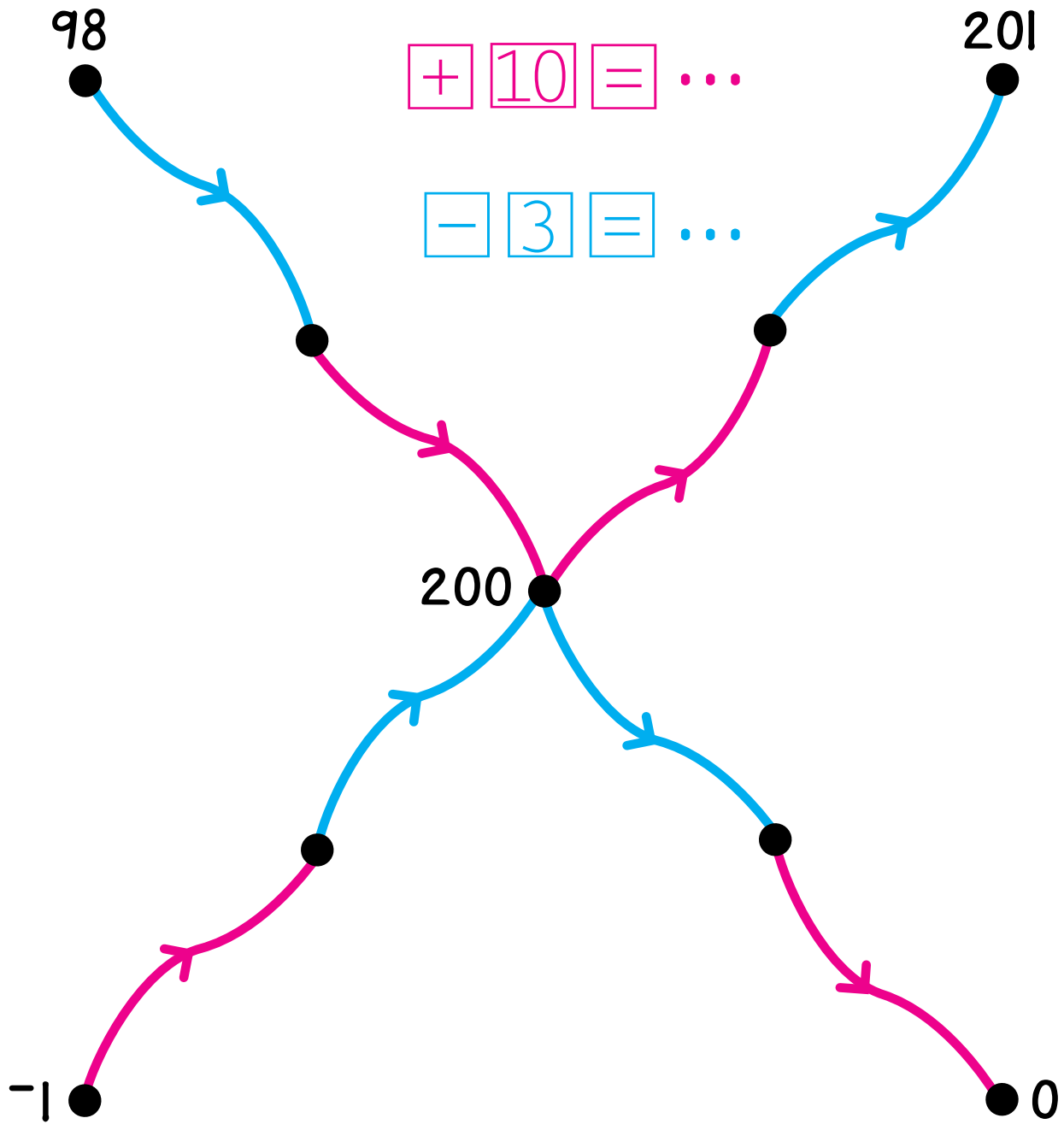


Who is Tix? _____

Name _____

N27 ***

Label the dots. Many solutions are possible.

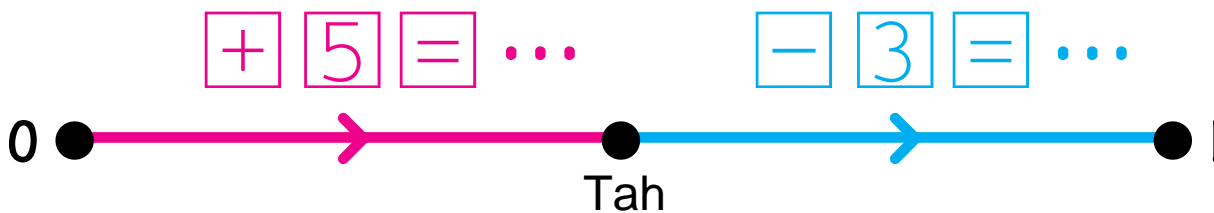


Name _____

N27 *****

Tah is a secret number.

Clue 1



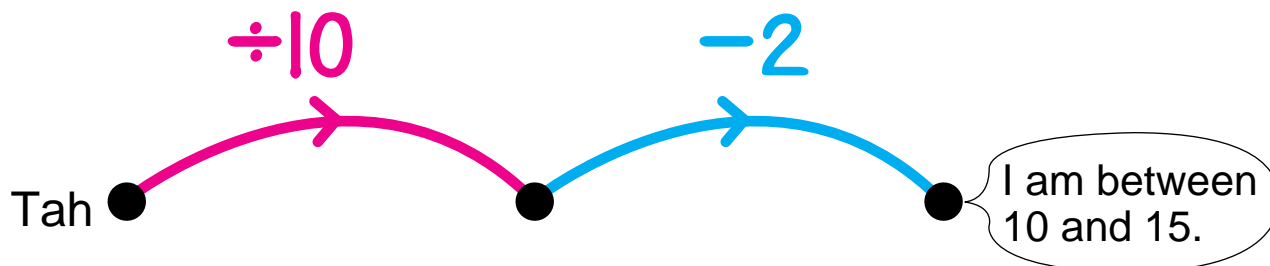
Tah could be _____, _____, _____, _____, _____, _____,
_____, _____, _____, _____, _____, _____, and so on.

Clue 2

Tah is a multiple of 4.

Tah could be _____, _____, _____, _____, _____, _____,
_____, _____, and so on.

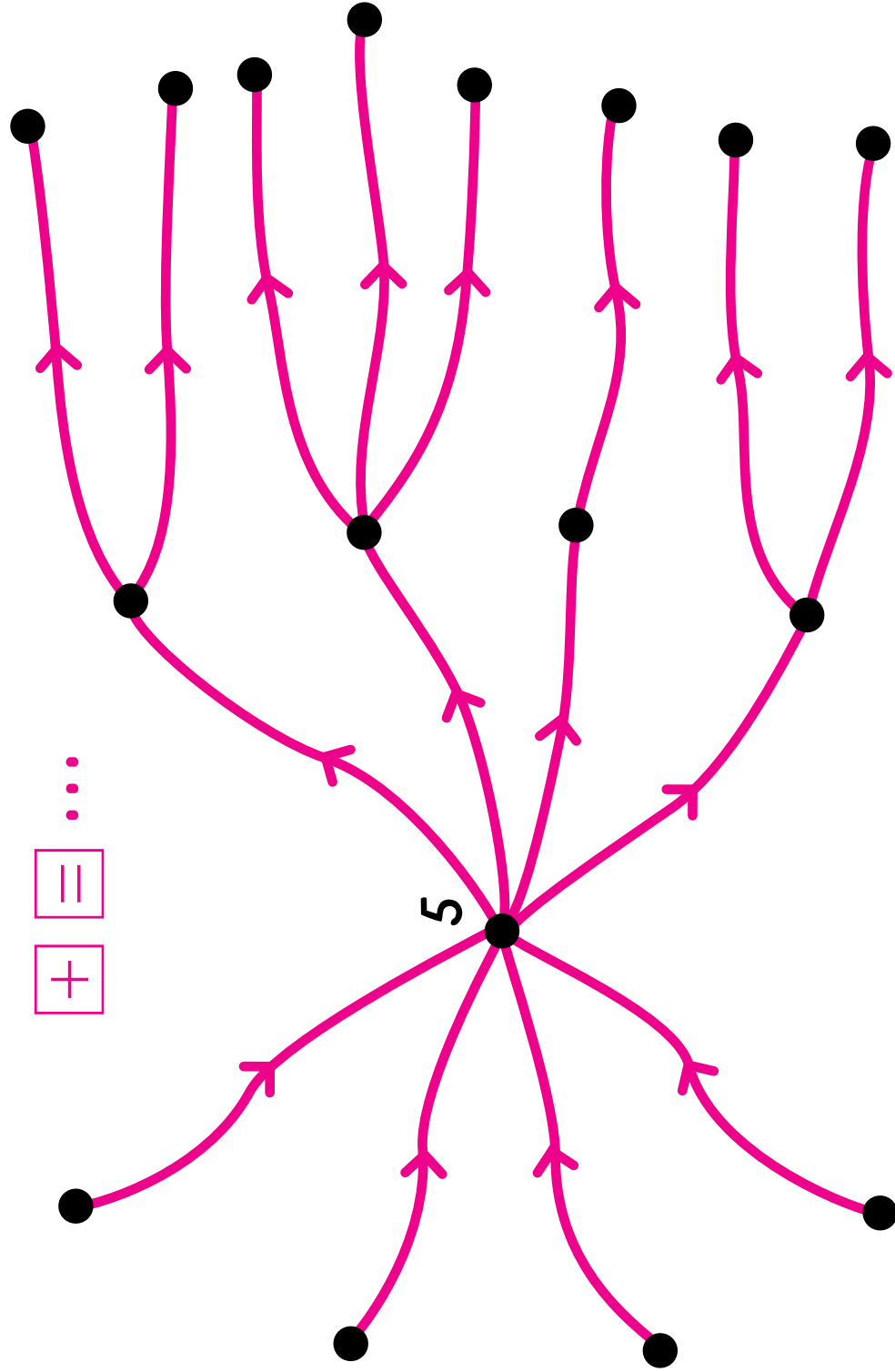
Clue 3



Who is Tah? _____

Name _____

Label the dots. Many solutions are possible. Many arrows could be added to this picture without adding any new dots. Draw at least three of them.

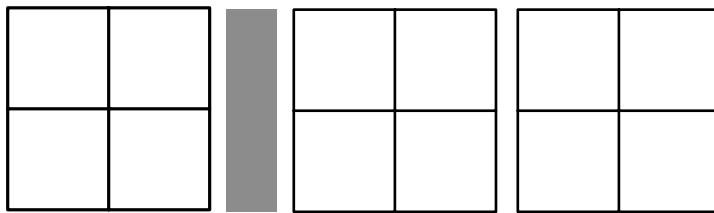


Name _____

Pof is a secret number.

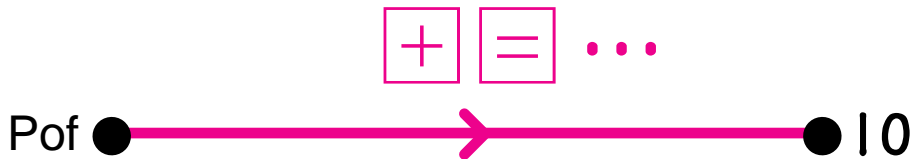
Clue 1

Pof can be put on this Minicomputer using exactly one regular checker.



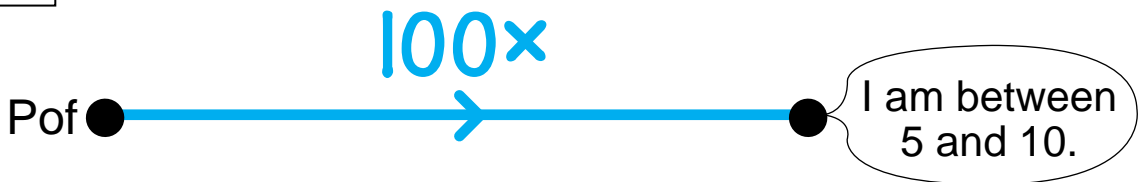
Pof could be _____, _____, _____, _____, _____, _____,
_____, _____, _____, _____, _____, or _____.

Clue 2



Pof could be _____, _____, _____, _____, _____, _____,
_____, _____, or _____.

Clue 3

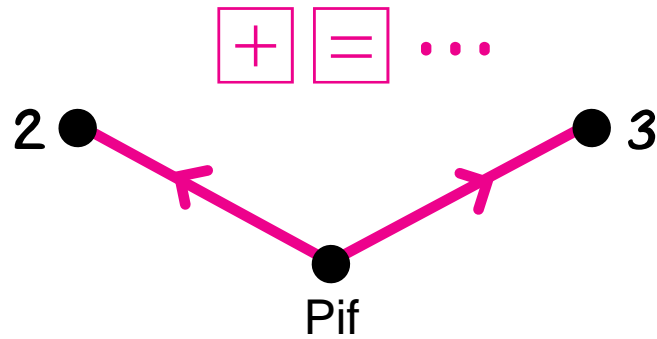


Who is Pof? _____

Name _____

Pif is a secret number.

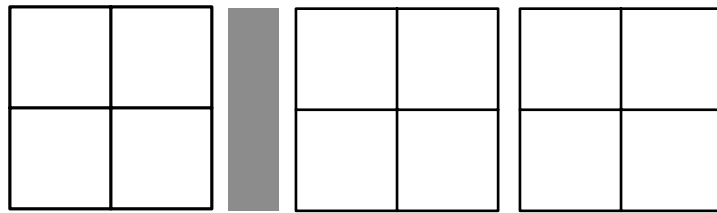
Clue 1



Pif could be _____, _____, _____, _____, _____, _____, _____, and so on.

Clue 2

Pif can be put on this Minicomputer.



Pif could be _____, _____, _____, _____, _____, _____, _____, or _____.

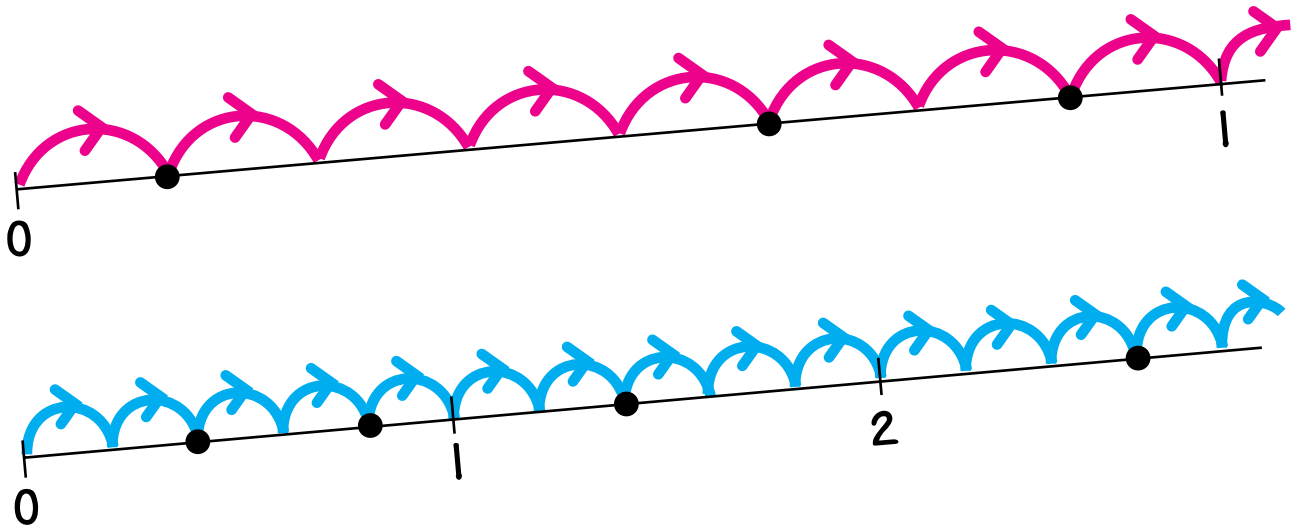
Clue 3

Pif cannot be put on the Minicomputer using exactly two checkers (positive or negative).

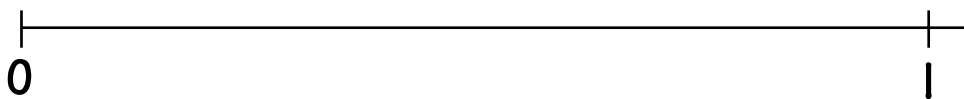
Who is Pif? _____

Name _____

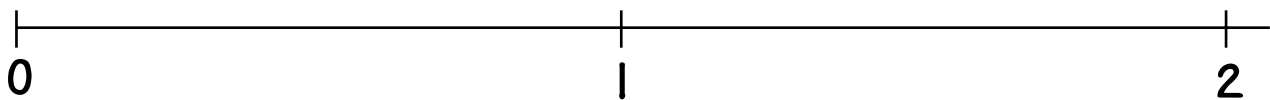
Label the dots.



Use a ruler to locate $\frac{2}{6}$ and $\frac{5}{6}$.

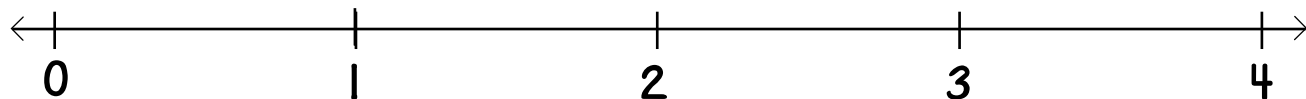


Use a ruler to locate $\frac{1}{4}$, $\frac{3}{4}$, $\frac{7}{4}$, and $\frac{8}{4}$.



Name _____

N30 **



Write one of these fractions in each of the boxes.

$$\frac{8}{3}$$

$$\frac{7}{9}$$

$$\frac{19}{11}$$

$$\frac{17}{5}$$

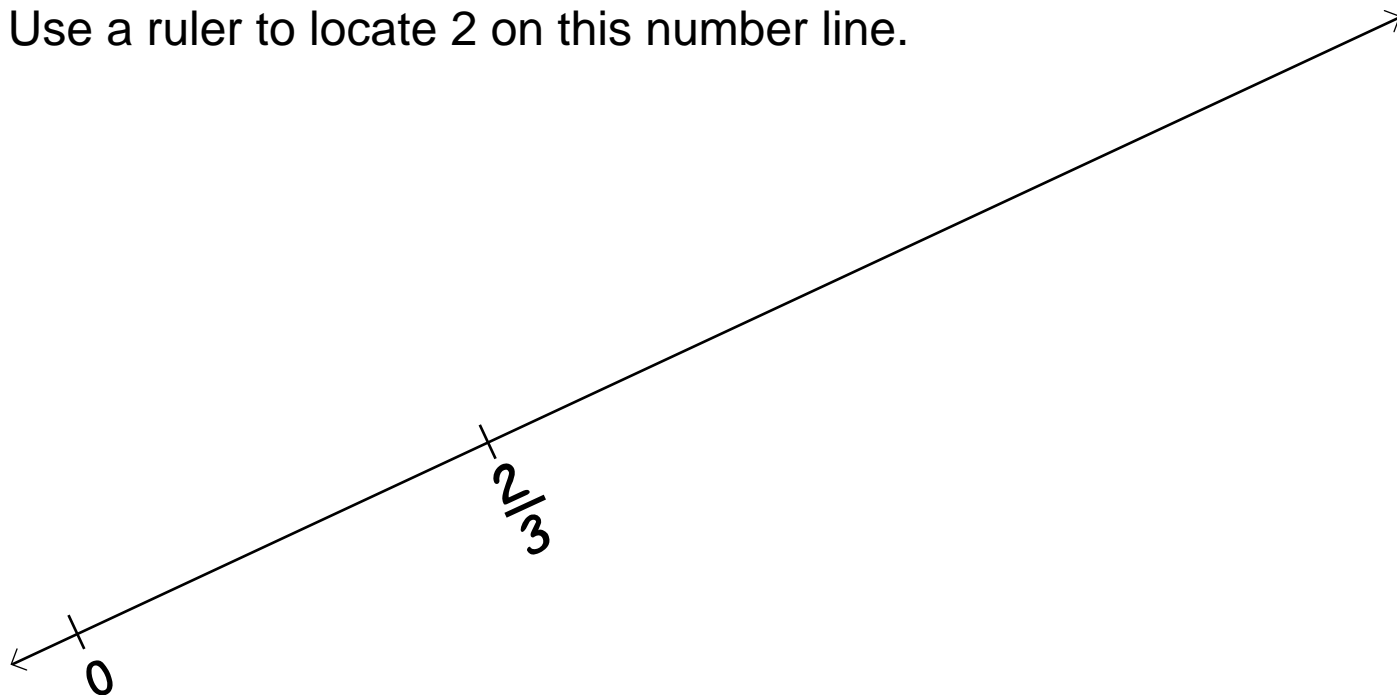
$$0 < \boxed{} < 1 < \boxed{} < 2$$

$$2 < \boxed{} < 3 < \boxed{} < 4$$

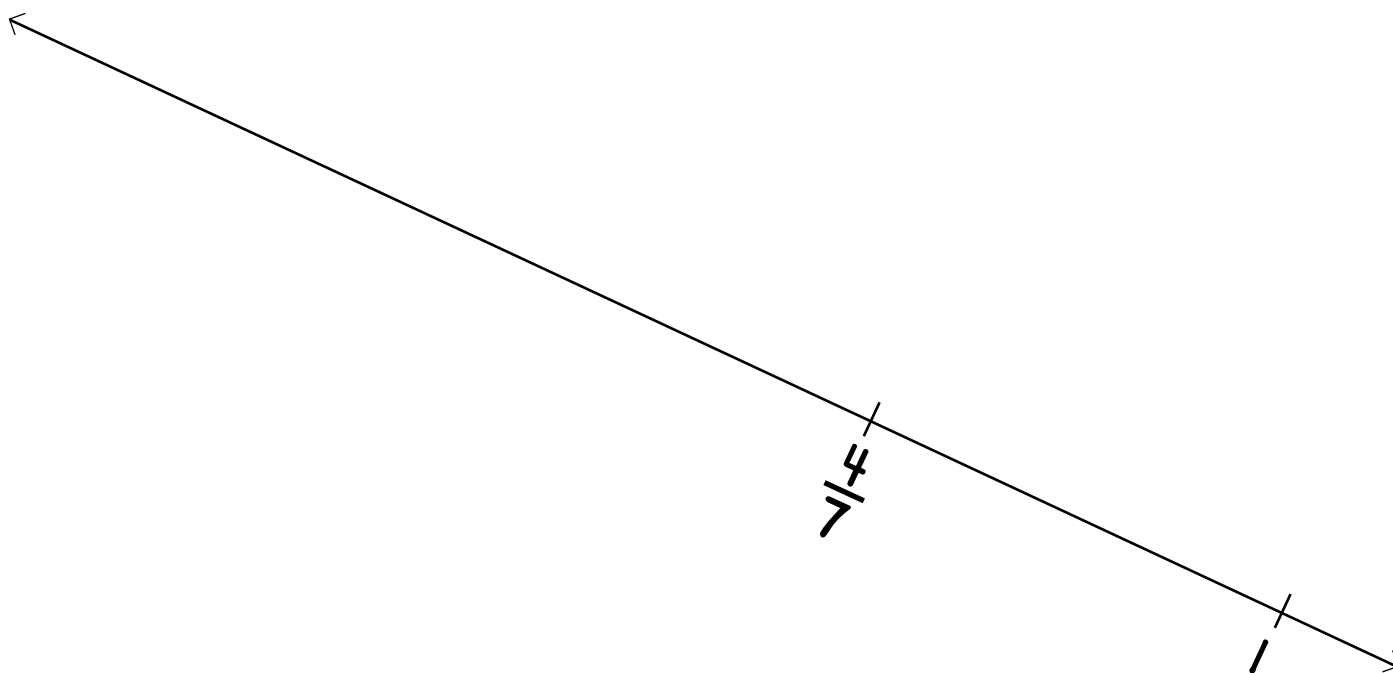
Name _____

N30 ***

Use a ruler to locate 2 on this number line.



Use a ruler to locate 0 on this number line.



Name _____

N31 ***

Toh is a secret number.

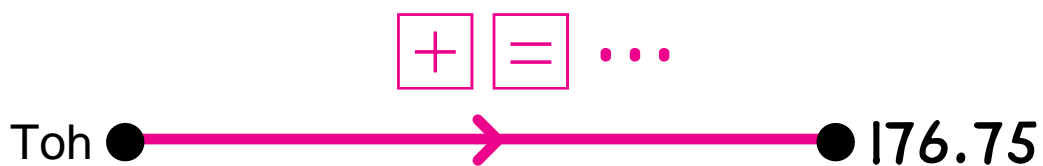
Clue 1

Toh can be put on this part of the binary abacus using at most one checker on each board.



Toh could be _____, _____, _____, _____, _____, _____,
_____, or _____.

Clue 2



Toh could be _____ or _____.

Clue 3

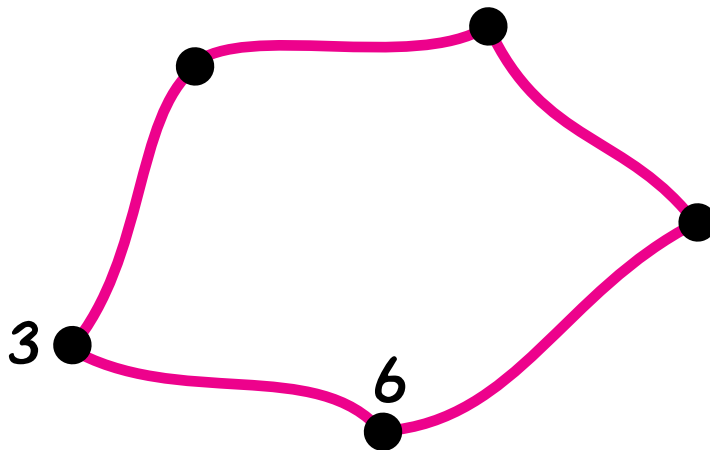
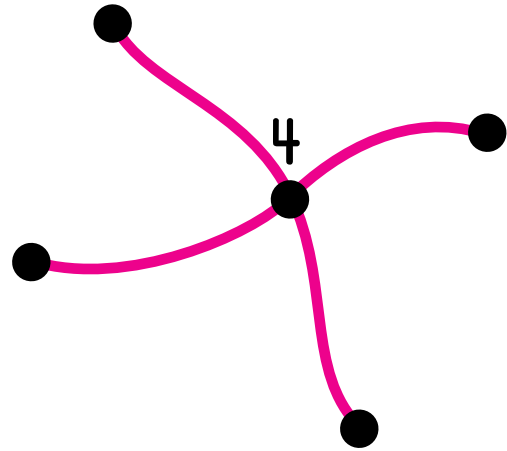
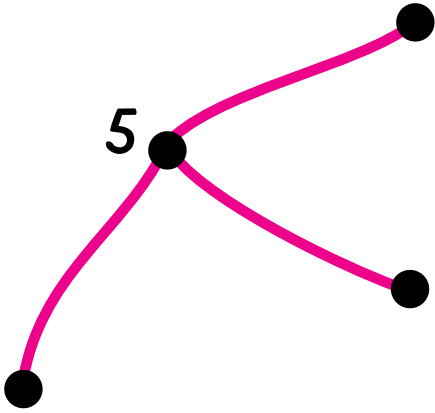
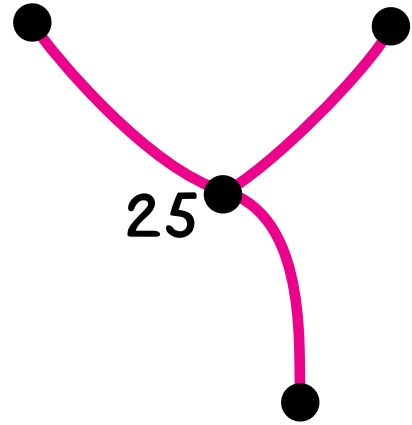
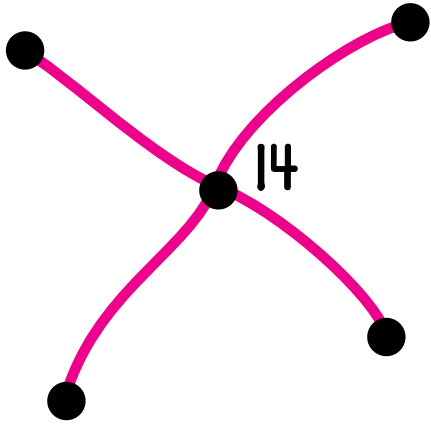
If you multiply Toh by 28, you get a square number.

Who is Toh? _____

Name _____

Telephone Game

Label the dots.

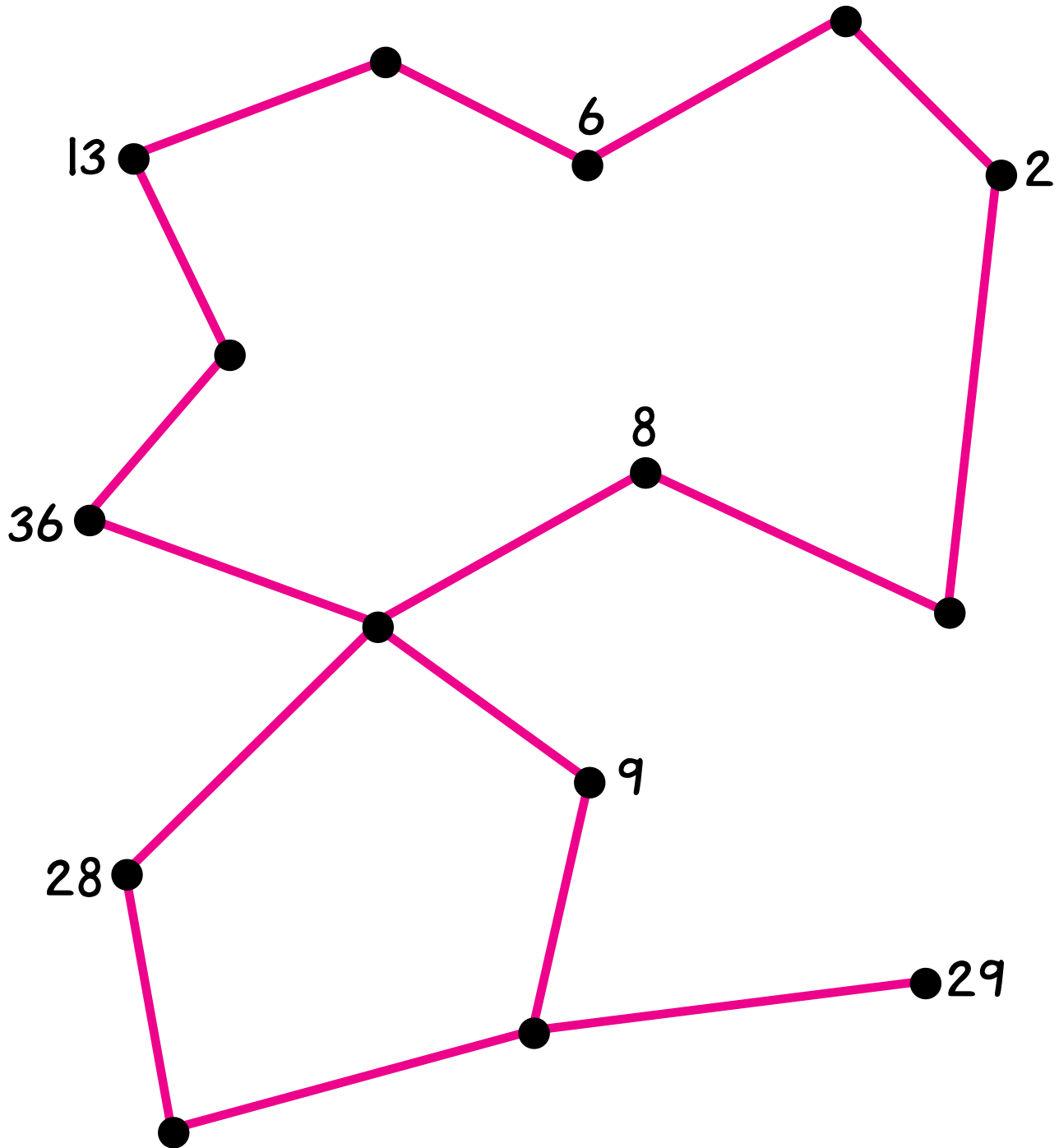


Name _____

N32 **

Telephone Game

Label the dots.

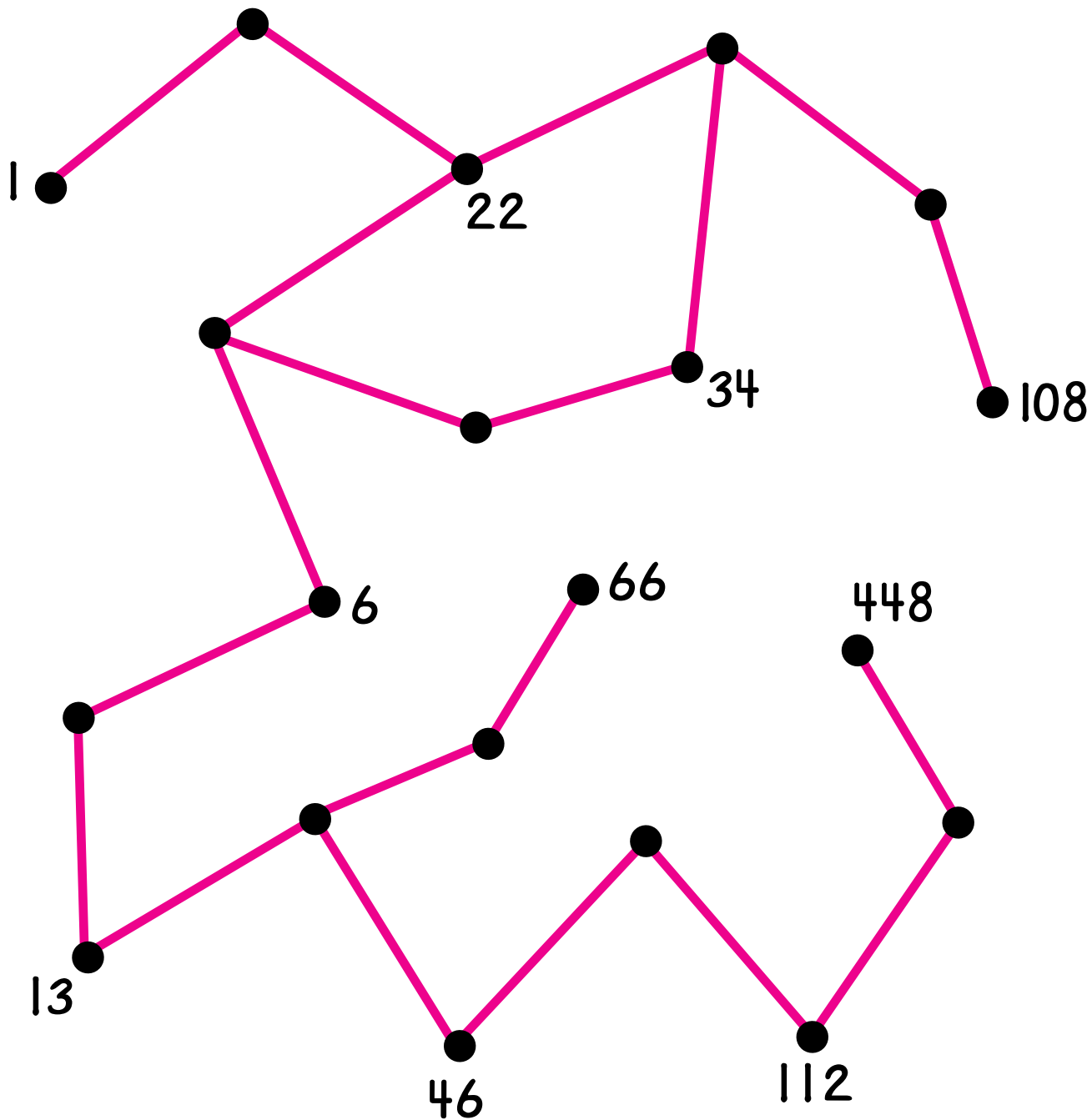


Name _____

N32 ***

Telephone Game

Label the dots.



Name _____

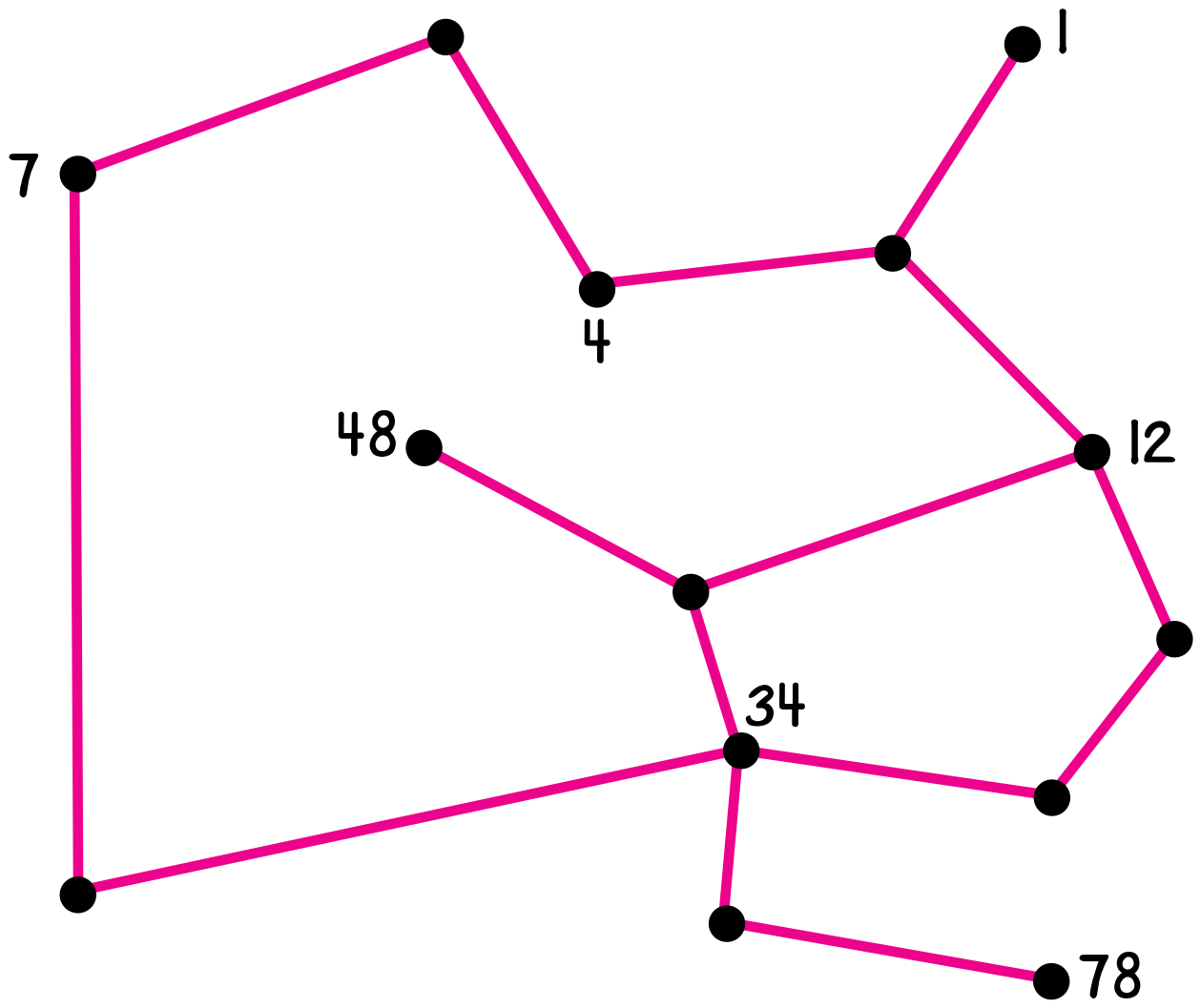
N33(a)

Telephone Game

Zip is a secret number.

Clue 1

Zip is in this picture. The dot for Zip is not labeled.



Zip could be _____, _____, _____, _____, _____, _____, or _____.
(over)

Name _____

N33(b)

Clue 2

8 can call Zip for 20¢.

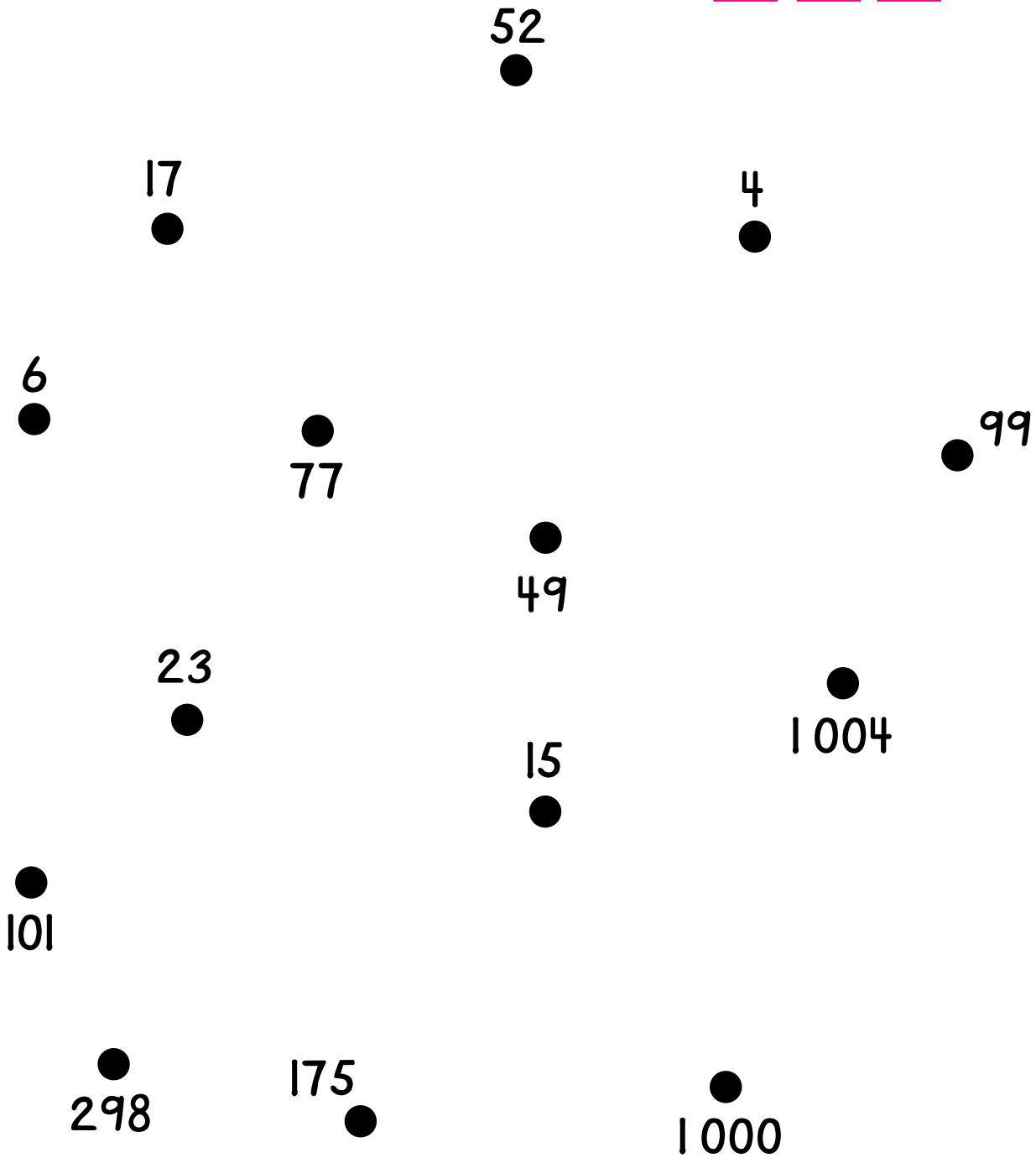
8
●

Who is Zip? _____ or _____.

Name _____

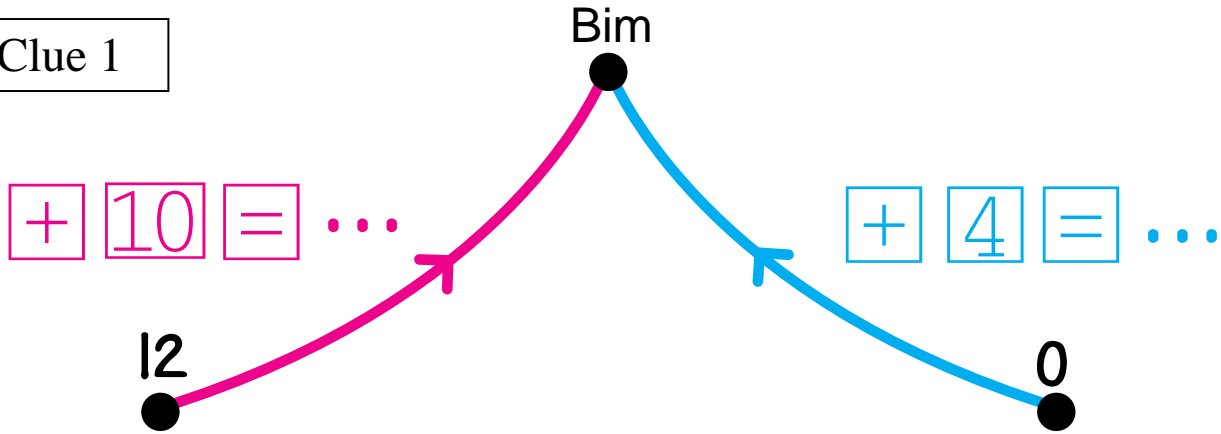
Draw as many red arrows as you can between these dots.

$+ 5 = \dots$



Name _____

Clue 1

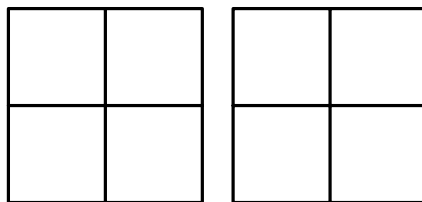


Bim could be _____, _____, _____, _____, _____, _____, and so on.

Clue 2

Bim can be put on this Minicomputer using exactly one of these checkers:

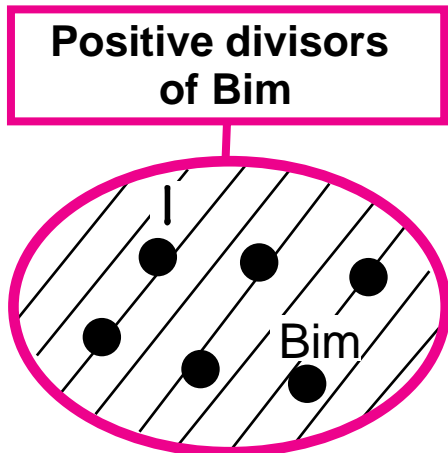
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦
- ⑧
- ⑨



Bim could be _____ or _____.

Clue 3

Bim has exactly six positive divisors.



Who is Bim? _____

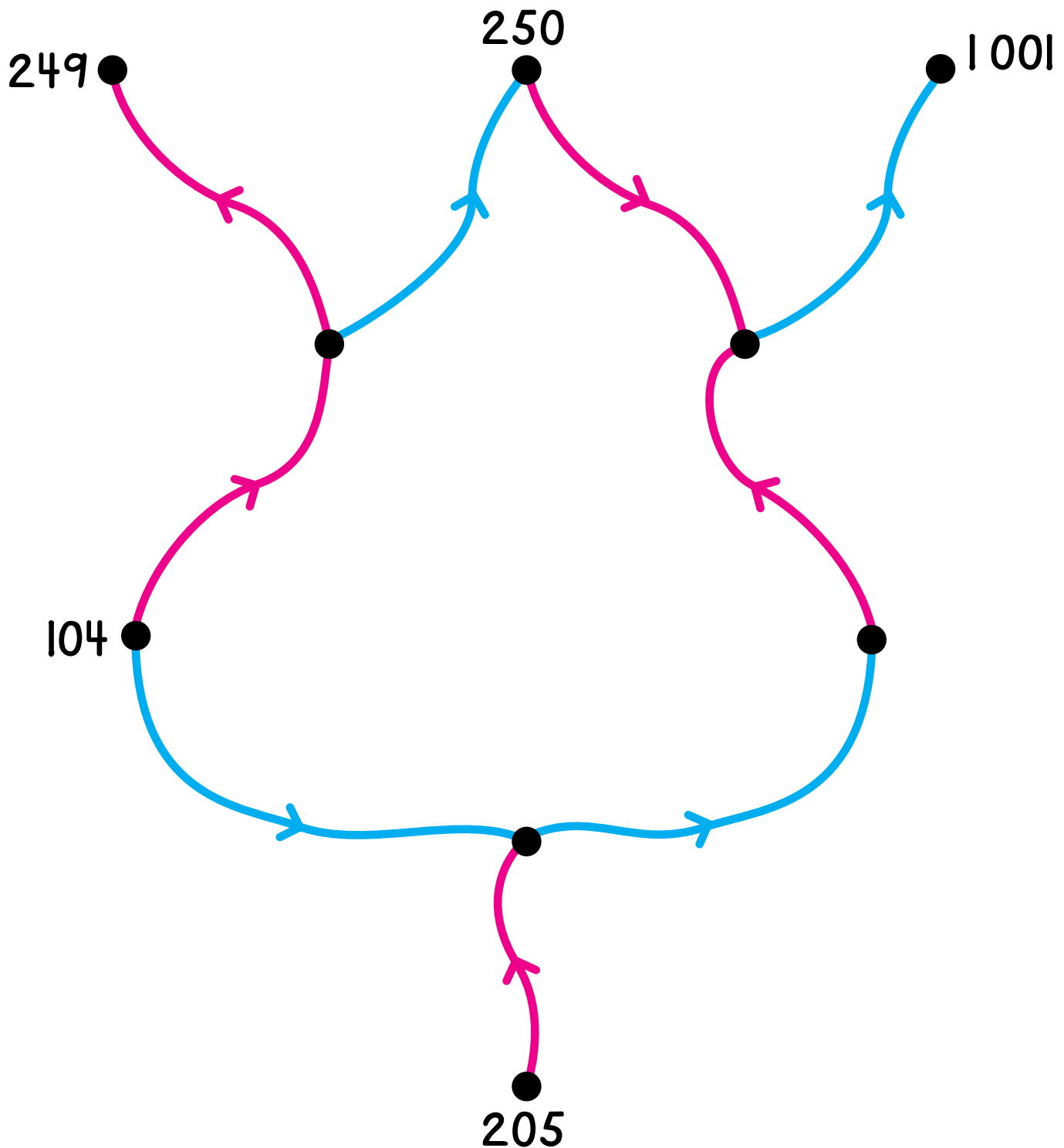
Name _____

N34 ***

Label the dots. Many solutions are possible.

$\boxed{+} \boxed{5} \boxed{=} \dots$

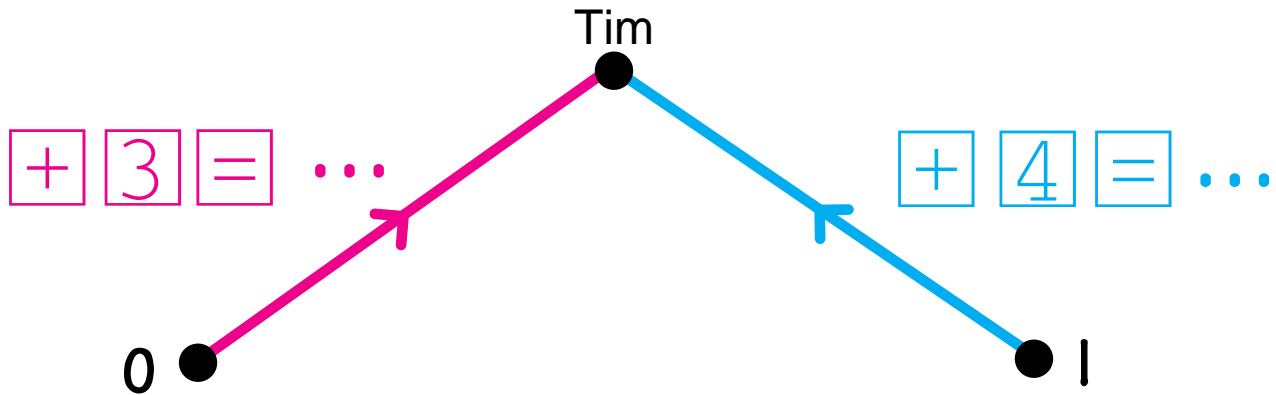
$\boxed{+} \boxed{3} \boxed{=} \dots$



Name _____

N34 *****

Clue 1



Tim could be _____, _____, _____, _____, _____, _____,
_____, _____, _____, and so on.

Clue 2

Tim is between 200 and 240.

Tim could be _____, _____, _____, or _____.

Clue 3



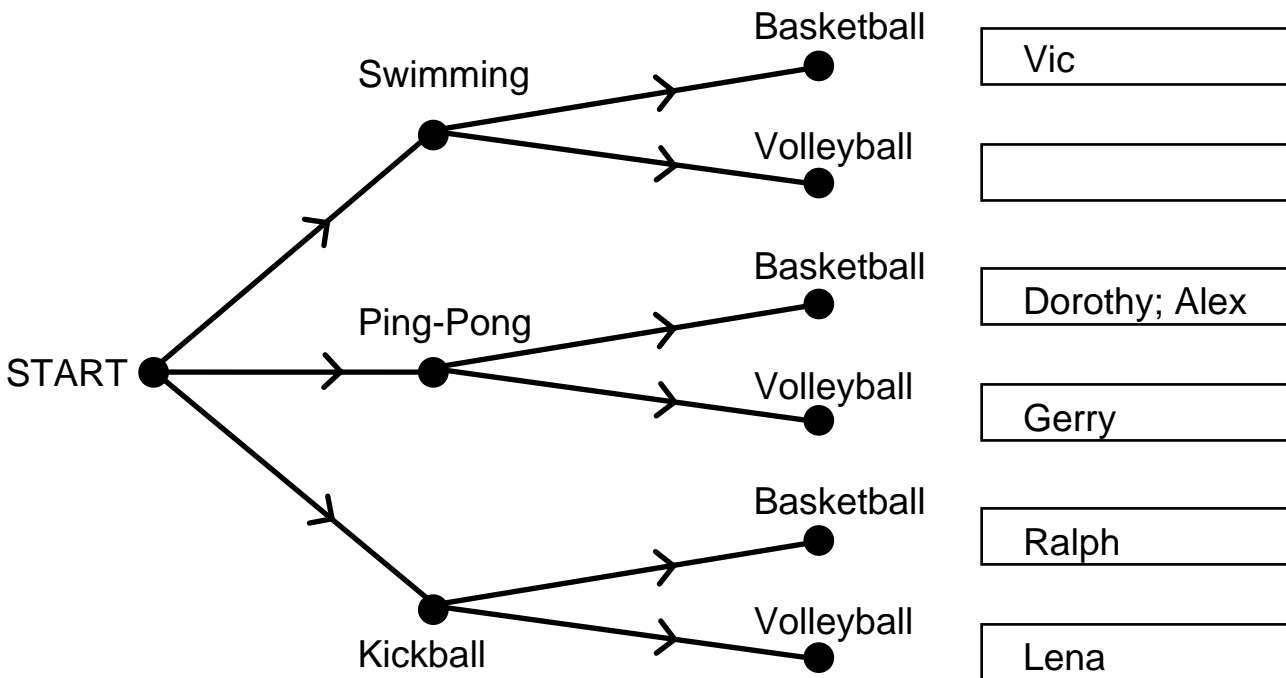
Who is Tim? _____

Name _____

Coventry Middle School Sports Saturday

Schedule	
1:00–2:30 p.m.	3:00–4:30 p.m.
Swimming Ping-Pong Kickball	Basketball Volleyball

Each student may select one sport from each time period.
They sign-up on the following chart.



Which two sports did Alex select? _____ and _____

Which two sports did Lena select? _____ and _____

Troy wants to play ping-pong and volleyball. Write his name in the proper place.

Shalin wants to play kickball and basketball. Write her name in the proper place.

Name _____

L2	***
----	-----

Kif is the ending number of an arrow road that starts at 3 and has exactly two arrows (blue, red, or black).

$+8$

$3 \times$

$\div 2$

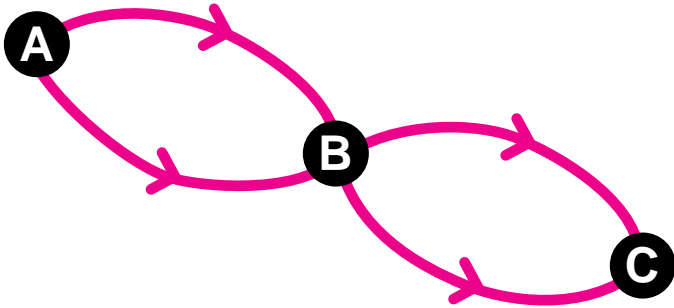
3
●

Kif could be _____, _____, _____, _____, _____, _____,
_____, or _____.

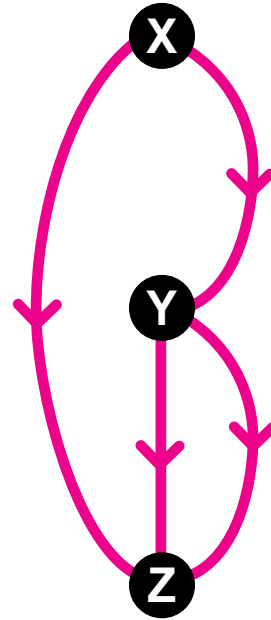
Name _____

How many paths can you choose to go...

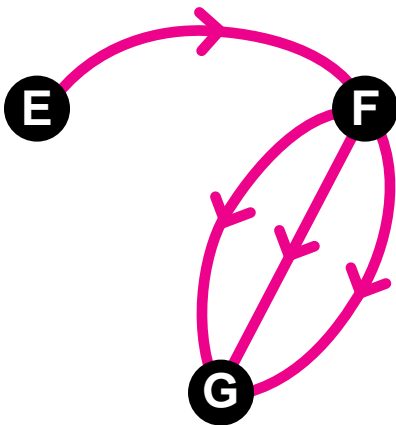
... from A to C?



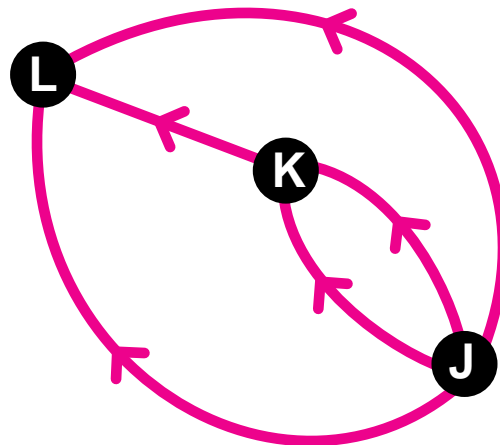
... from X to Z?



... from E to G?



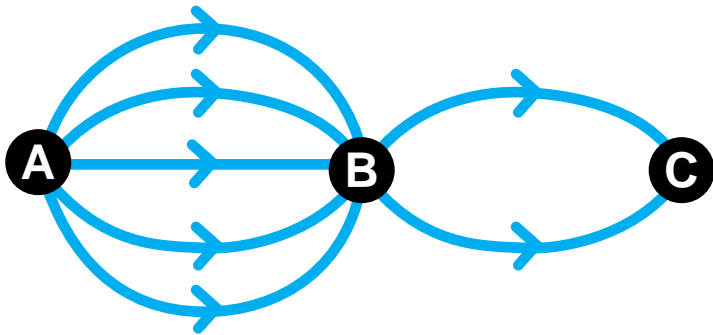
... from J to L?



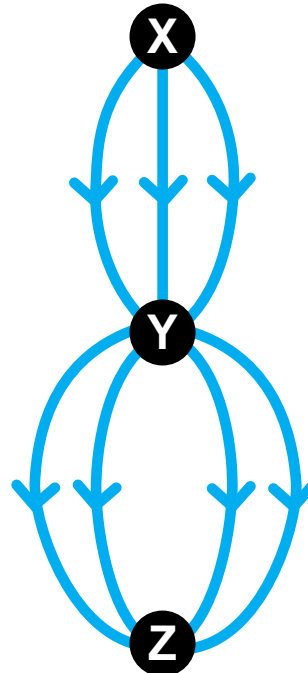
Name _____

How many paths can you choose to go...

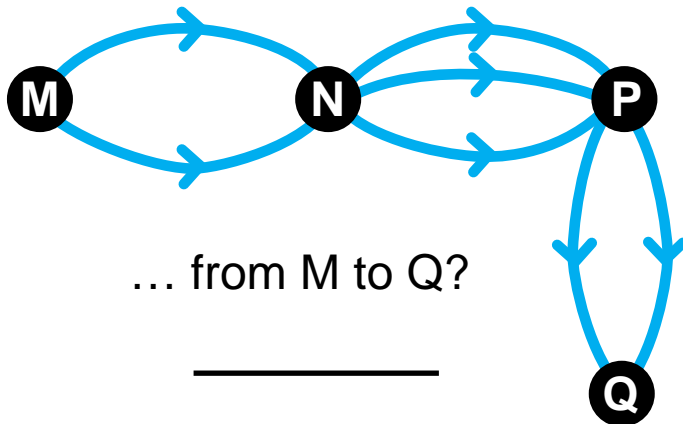
... from A to C?



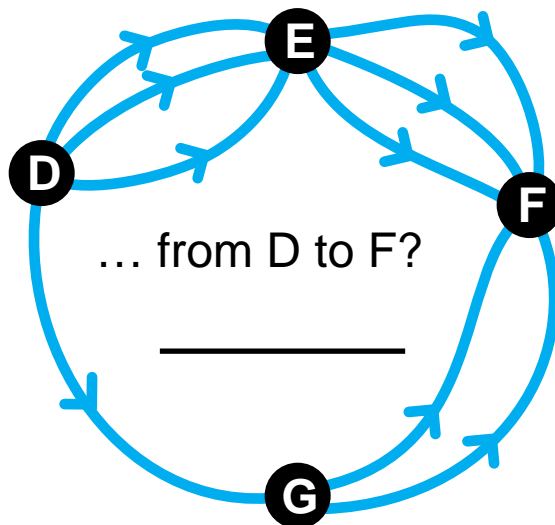
... from X to Z?



... from M to Q?

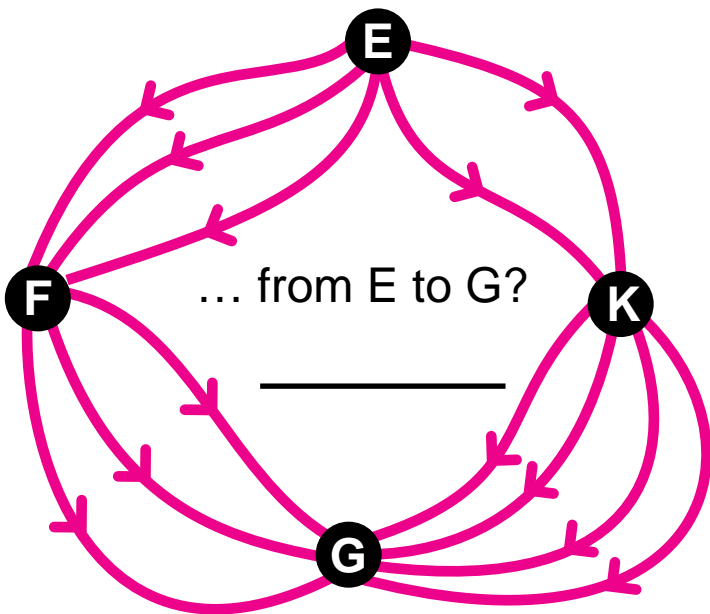
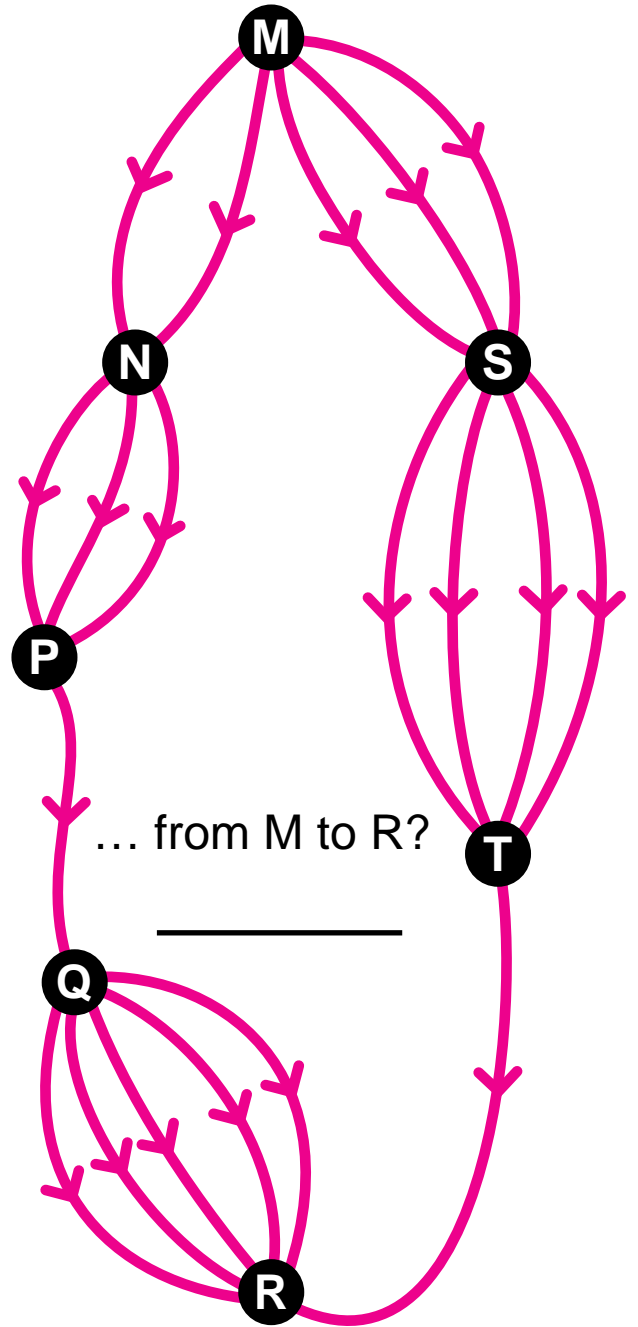
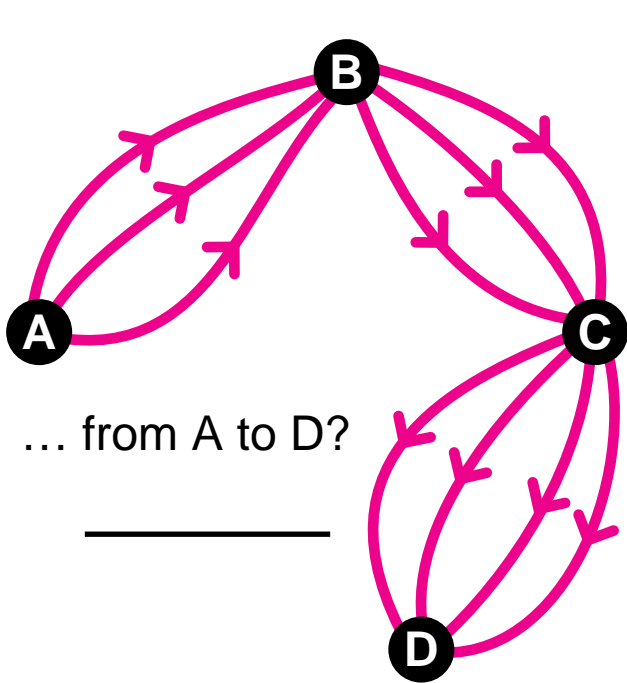


... from D to F?



Name _____

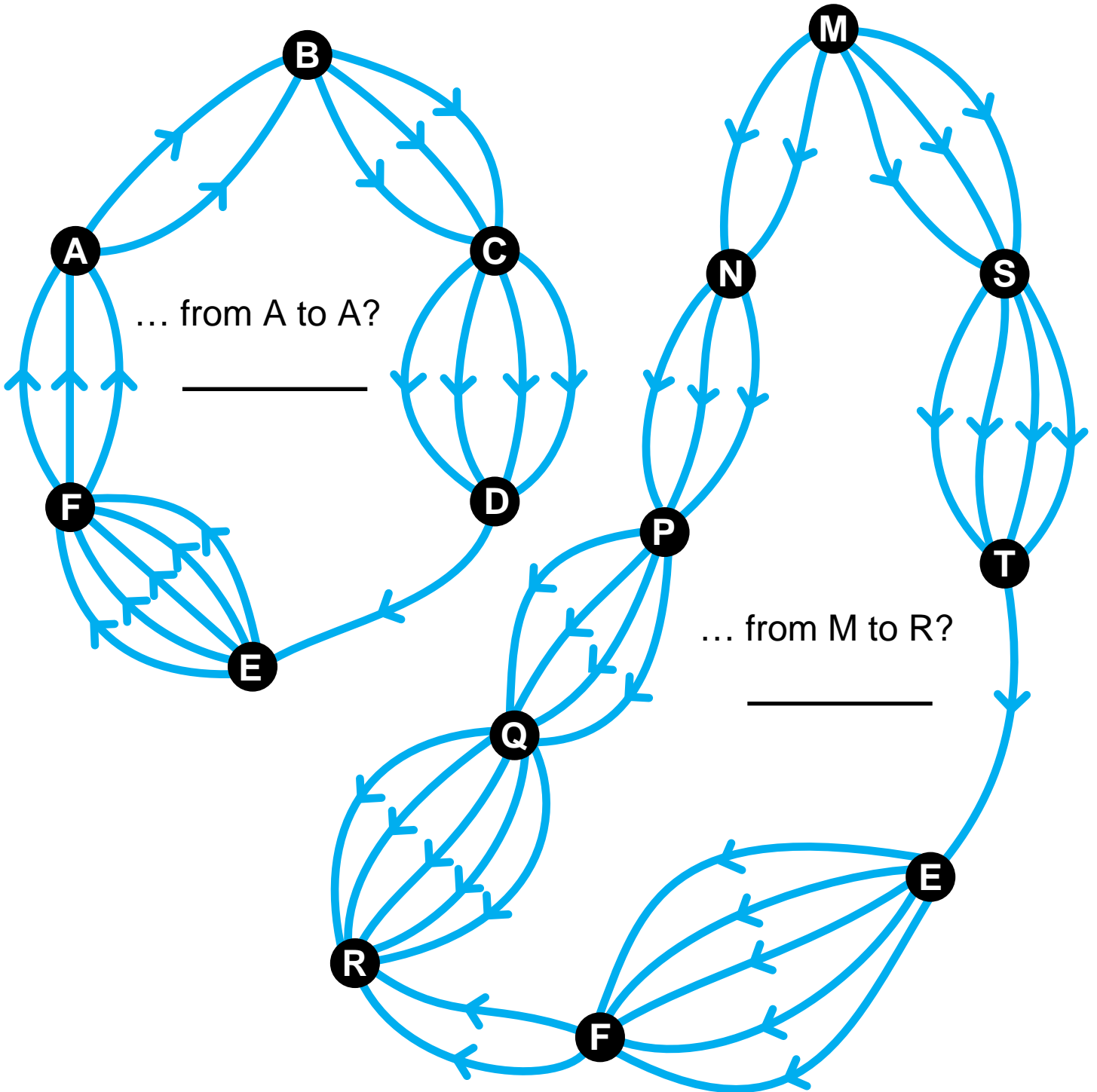
How many paths can you choose to go...



Name _____

L6 *****

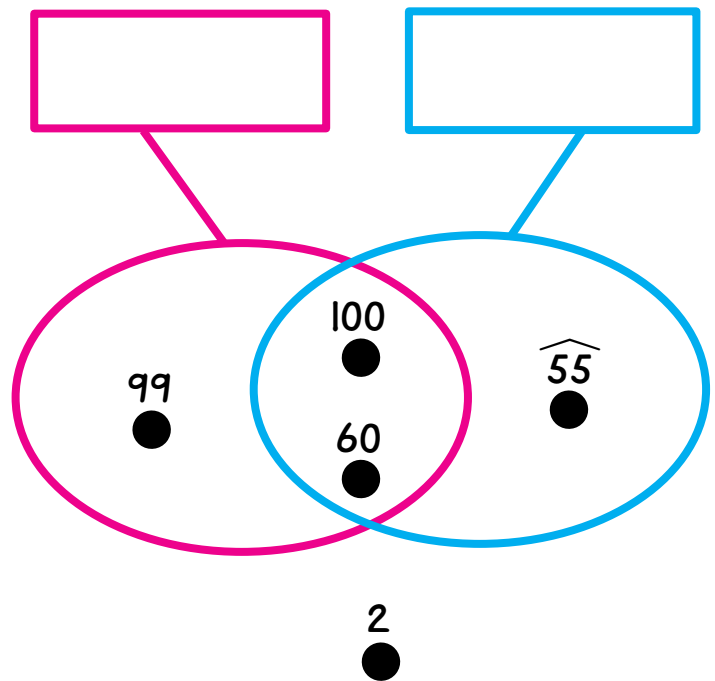
How many paths can you choose to go...



Name _____

Use the clues in the picture to cross out labels that the strings cannot have. Some are done for you. Then label the strings.

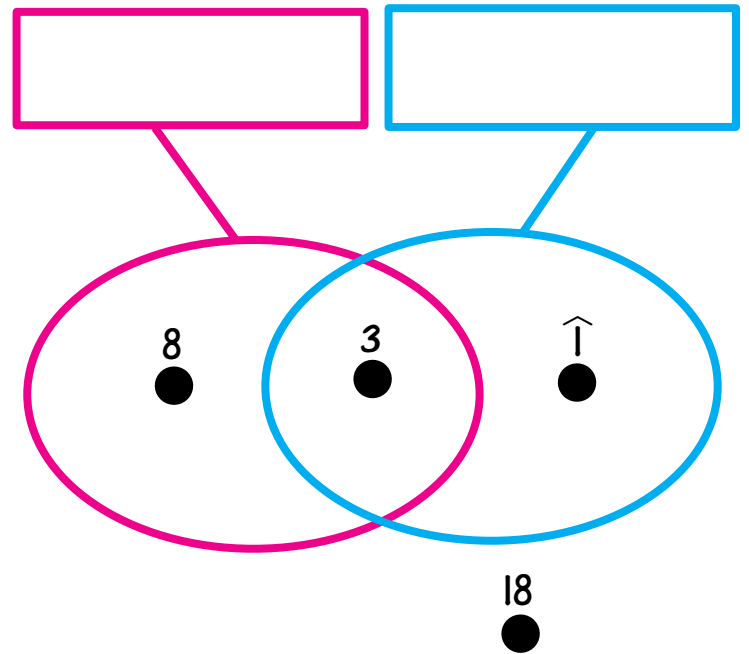
The RED label is one of these:	The BLUE label is one of these:
Multiples of 2	Multiples of 2
Multiples of 3	Multiples of 3
Multiples of 4	Multiples of 4
Multiples of 5	Multiples of 5
Multiples of 10	Multiples of 10
Odd Numbers	Odd Numbers
Positive Prime Numbers	Positive Prime Numbers
Greater than 50	Greater than 50
Less than 50	Less than 50
Greater than $\widehat{10}$	Greater than $\widehat{10}$
Less than $\widehat{10}$	Less than $\widehat{10}$
Positive Divisors of 12	Positive Divisors of 12
Positive Divisors of 18	Positive Divisors of 18
Positive Divisors of 20	Positive Divisors of 20
Positive Divisors of 24	Positive Divisors of 24
Positive Divisors of 27	Positive Divisors of 27



Name _____

Use the clues in the picture to cross out labels that the strings cannot have. Some are done for you. Then label the strings.

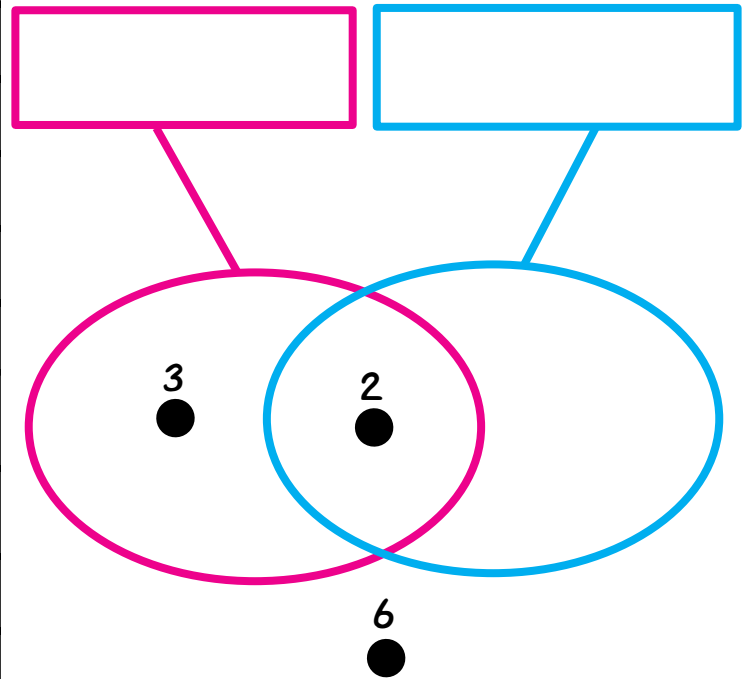
The RED label is one of these:	The BLUE label is one of these:
Multiples of 2	Multiples of 2
Multiples of 3	Multiples of 3
Multiples of 4	Multiples of 4
Multiples of 5	Multiples of 5
Multiples of 10	Multiples of 10
Odd Numbers	Odd Numbers
Positive Prime Numbers	Positive Prime Numbers
Greater than 50	Greater than 50
Less than 50	Less than 50
Greater than $\widehat{10}$	Greater than $\widehat{10}$
Less than $\widehat{10}$	Less than $\widehat{10}$
Positive Divisors of 12	Positive Divisors of 12
Positive Divisors of 18	Positive Divisors of 18
Positive Divisors of 20	Positive Divisors of 20
Positive Divisors of 24	Positive Divisors of 24
Positive Divisors of 27	Positive Divisors of 27



Name _____

Use the clues in the picture to cross out labels that the strings cannot have. Then label the strings.

The RED label is one of these:	The BLUE label is one of these:
Multiples of 2	Multiples of 2
Multiples of 3	Multiples of 3
Multiples of 4	Multiples of 4
Multiples of 5	Multiples of 5
Multiples of 10	Multiples of 10
Odd Numbers	Odd Numbers
Positive Prime Numbers	Positive Prime Numbers
Greater than 50	Greater than 50
Less than 50	Less than 50
Greater than $\widehat{10}$	Greater than $\widehat{10}$
Less than $\widehat{10}$	Less than $\widehat{10}$
Positive Divisors of 12	Positive Divisors of 12
Positive Divisors of 18	Positive Divisors of 18
Positive Divisors of 20	Positive Divisors of 20
Positive Divisors of 24	Positive Divisors of 24
Positive Divisors of 27	Positive Divisors of 27

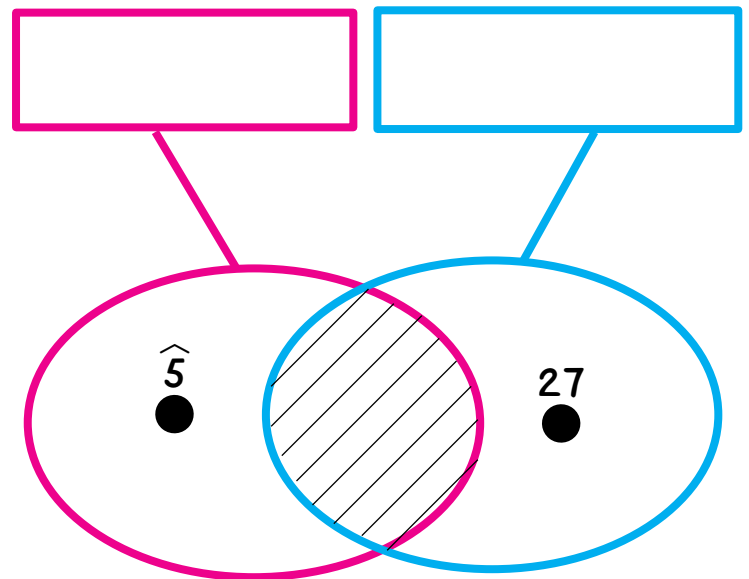


Name _____

L9 ****

Use the clues in the picture to cross out labels that the strings cannot have. The hatching is a clue. Then label the strings.

The RED label is one of these:	The BLUE label is one of these:
Multiples of 2	Multiples of 2
Multiples of 3	Multiples of 3
Multiples of 4	Multiples of 4
Multiples of 5	Multiples of 5
Multiples of 10	Multiples of 10
Odd Numbers	Odd Numbers
Positive Prime Numbers	Positive Prime Numbers
Greater than 50	Greater than 50
Less than 50	Less than 50
Greater than $\widehat{10}$	Greater than $\widehat{10}$
Less than $\widehat{10}$	Less than $\widehat{10}$
Positive Divisors of 12	Positive Divisors of 12
Positive Divisors of 18	Positive Divisors of 18
Positive Divisors of 20	Positive Divisors of 20
Positive Divisors of 24	Positive Divisors of 24
Positive Divisors of 27	Positive Divisors of 27



Name _____

G1	*
----	---

Draw a two-piece zigzag starting in one circle and ending in the other. Make one piece 5 cm long and the other 7 cm long.



Draw a three-piece zigzag starting in one circle and ending in the other. The lengths of the pieces must be 2 cm, 4 cm, and 8 cm.



Draw a three-piece zigzag starting in one circle and ending in the other. The lengths of the pieces must be 4.8 cm, 5.9 cm, and 6.2 cm.



Name _____

G1	***
----	-----

Draw a zigzag from circle A to circle B to circle C. Use each of these lengths exactly once.

4.3 cm 5.5 cm 7.2 cm 8.4 cm

A ○

○ B

○ C

Draw a zigzag from circle A to circle B to circle C. Use each of these lengths exactly once.

2.5 cm 3.6 cm 4.9 cm 10.4 cm 11.2 cm

A ○

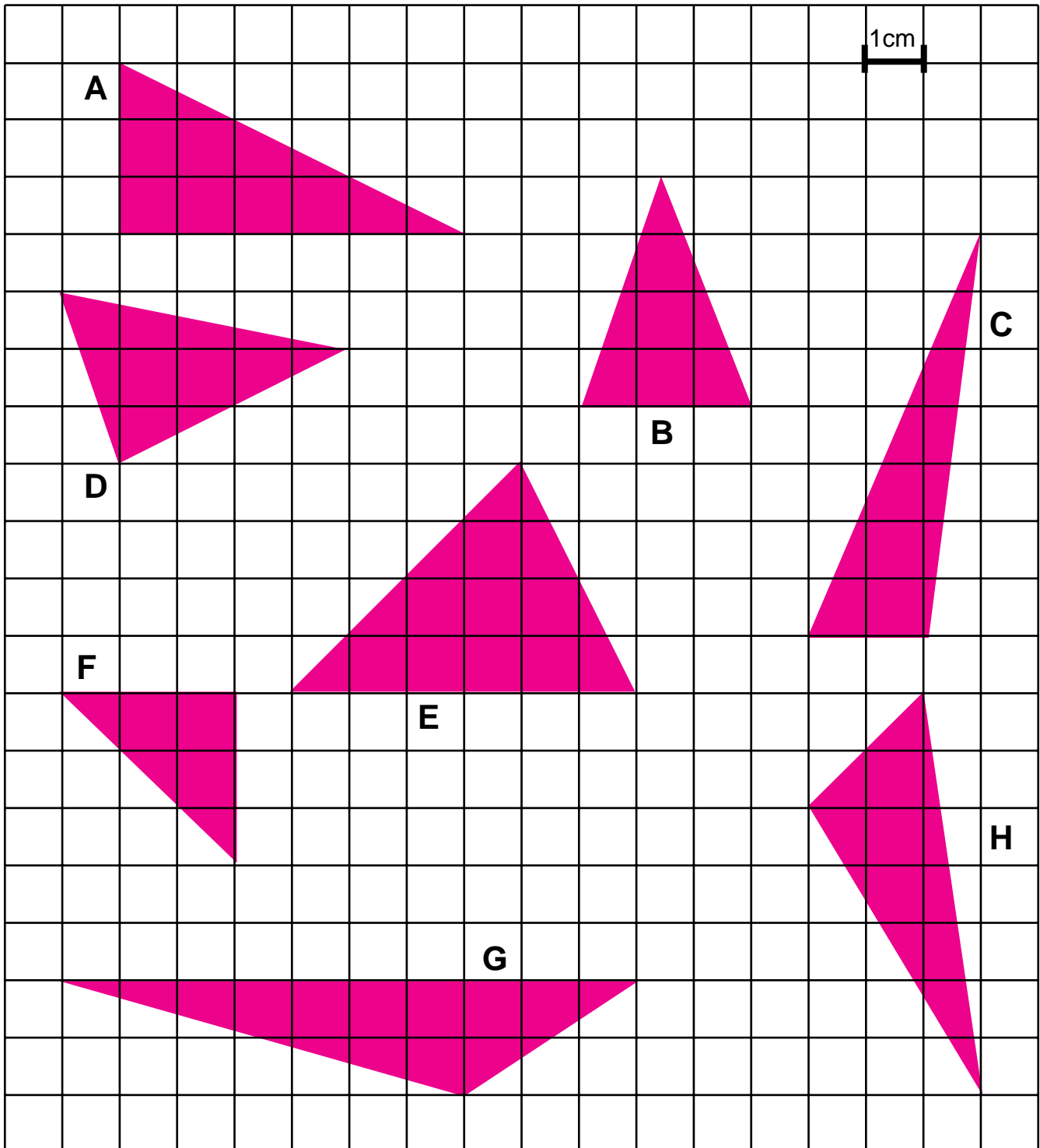
○
B

○ C

Name _____

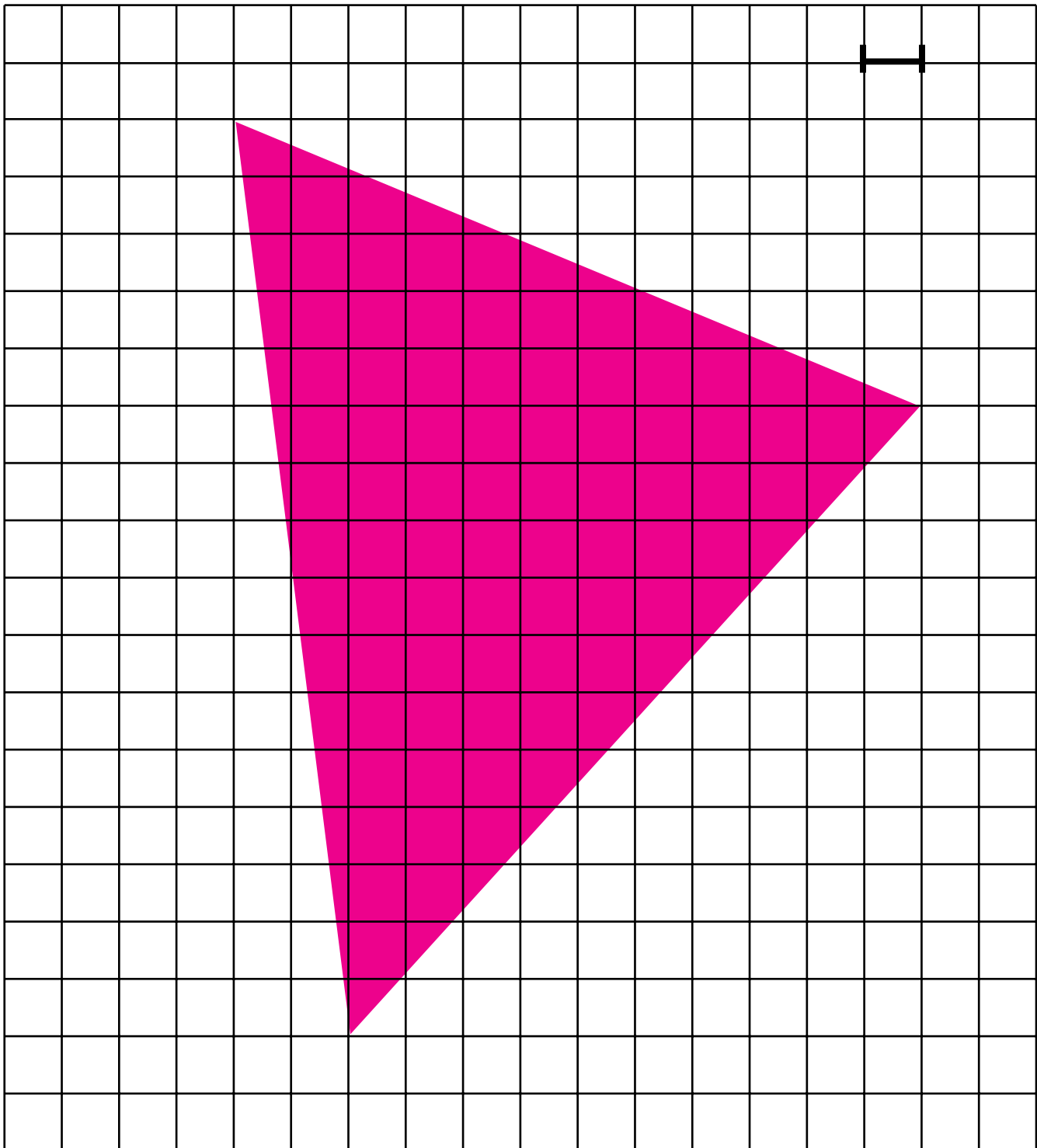
G2(a)

For each triangle, draw the smallest rectangle that surrounds it and that has sides along the grid lines. Is the area of the triangle half of the area of the rectangle? Write **yes** or **no** near the triangle.



Name _____

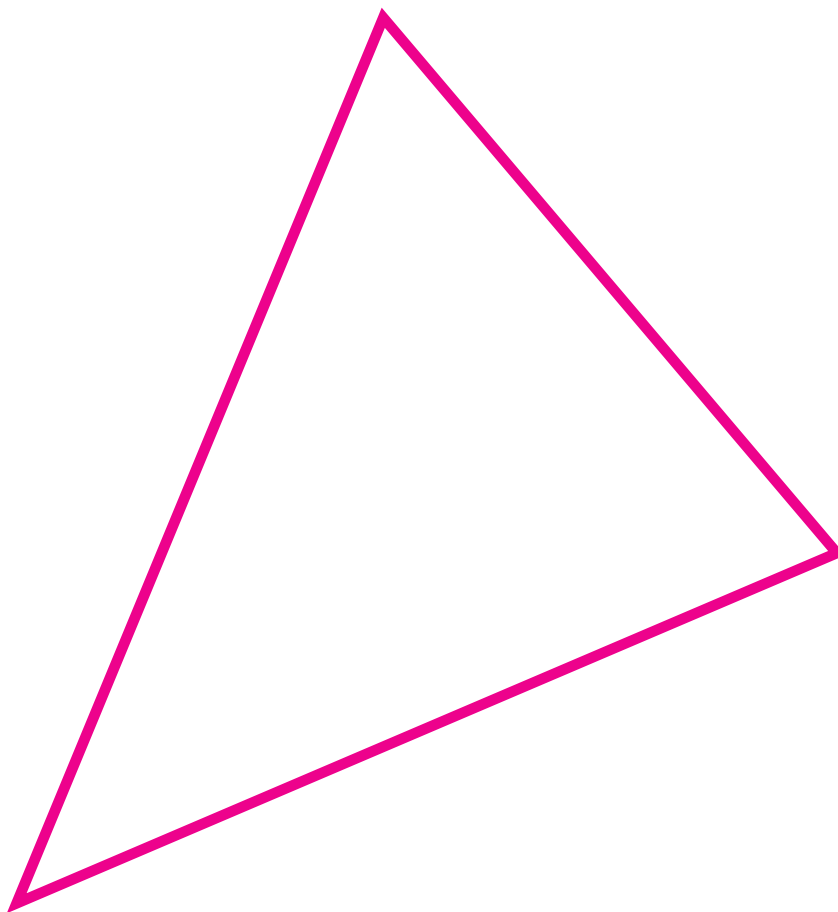
G2(b)



Name _____

G3

Find the area of this triangle. Use the method of drawing a rectangle around it that has twice its area.



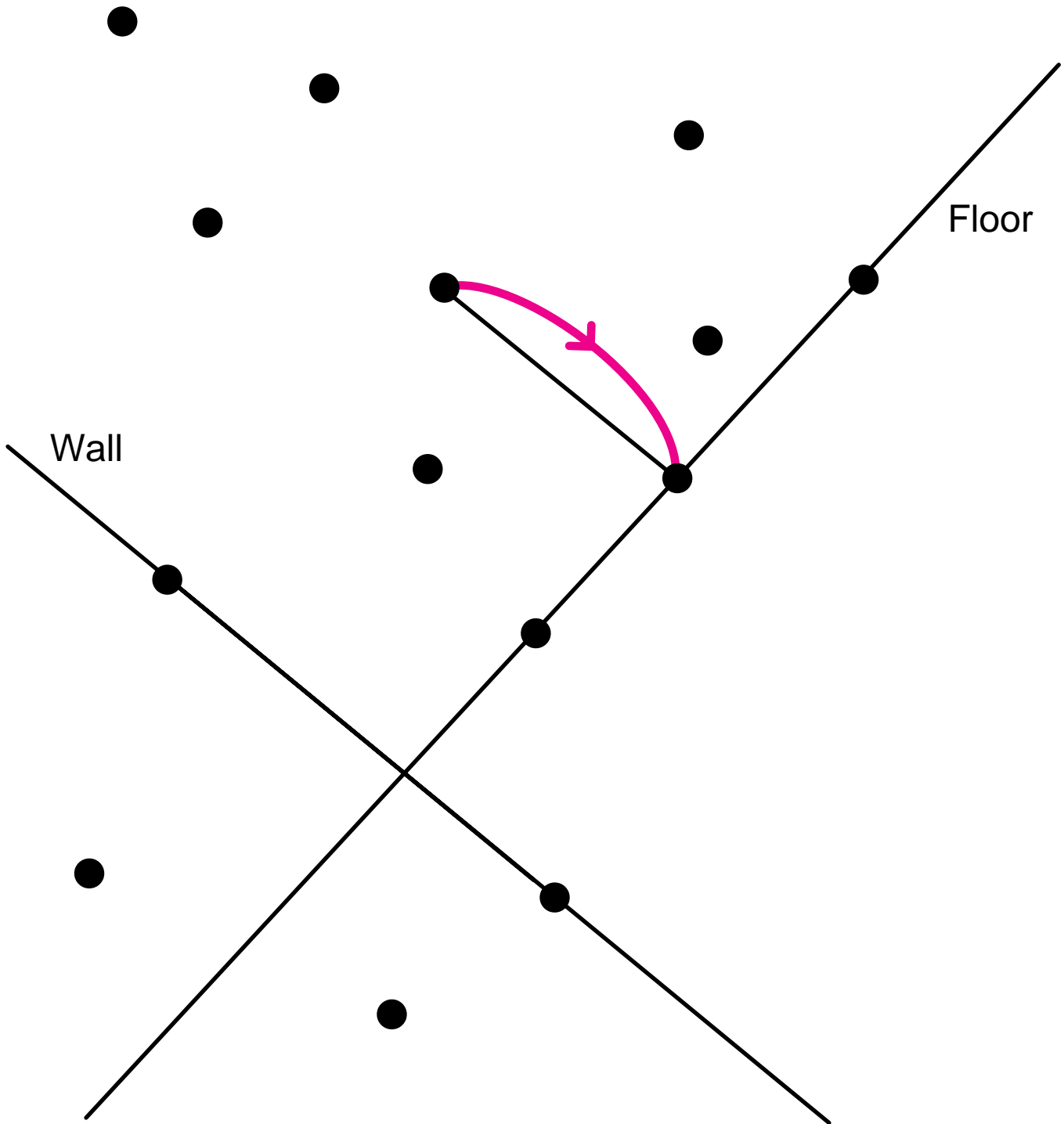
Area of the rectangle is _____ cm^2 .

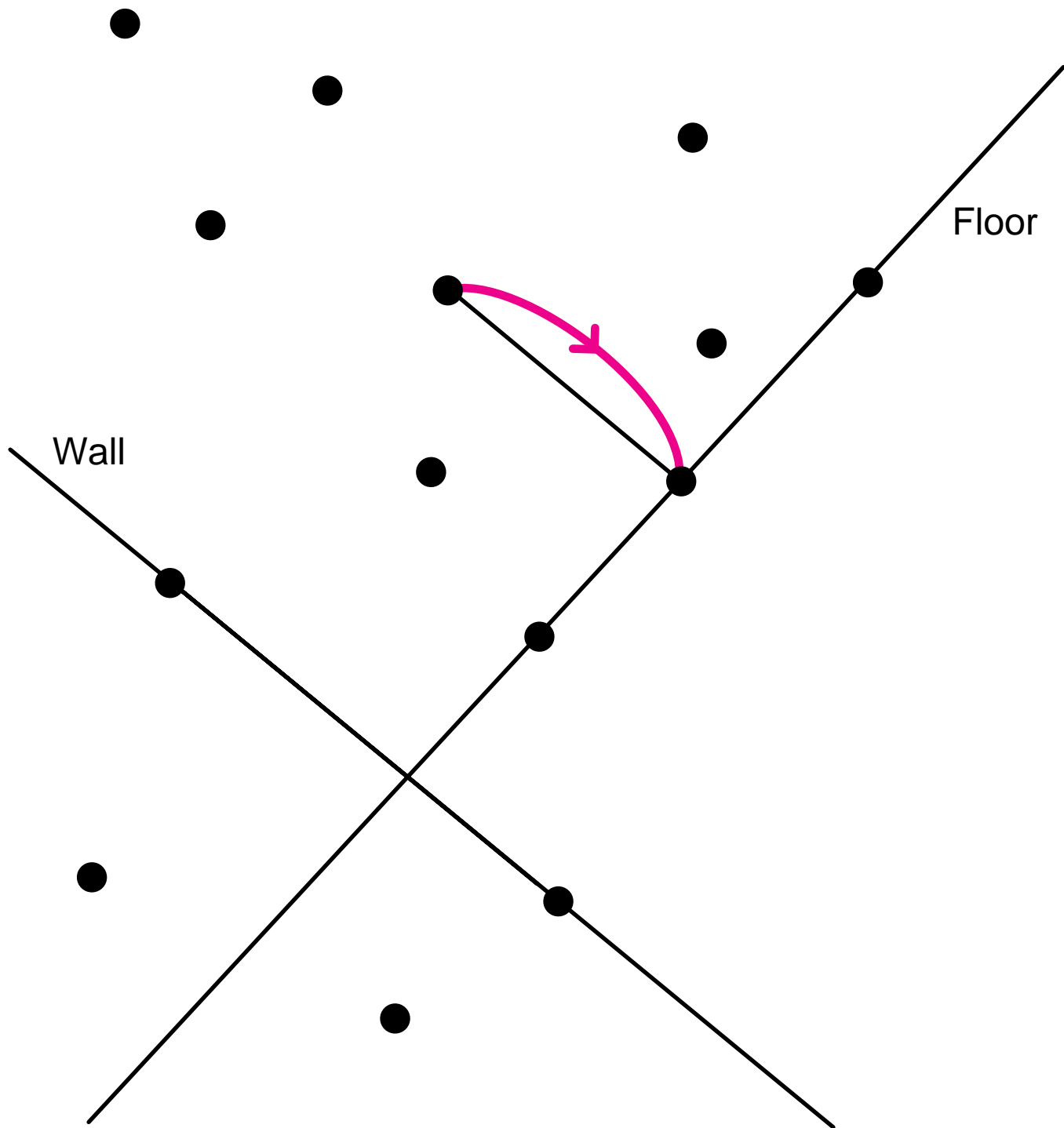
Area of the triangle is _____ cm^2 .

Name _____

G4 *

Project each point onto the floor parallel to the wall.
Draw a red arrow from each point to its image. One is done for you.

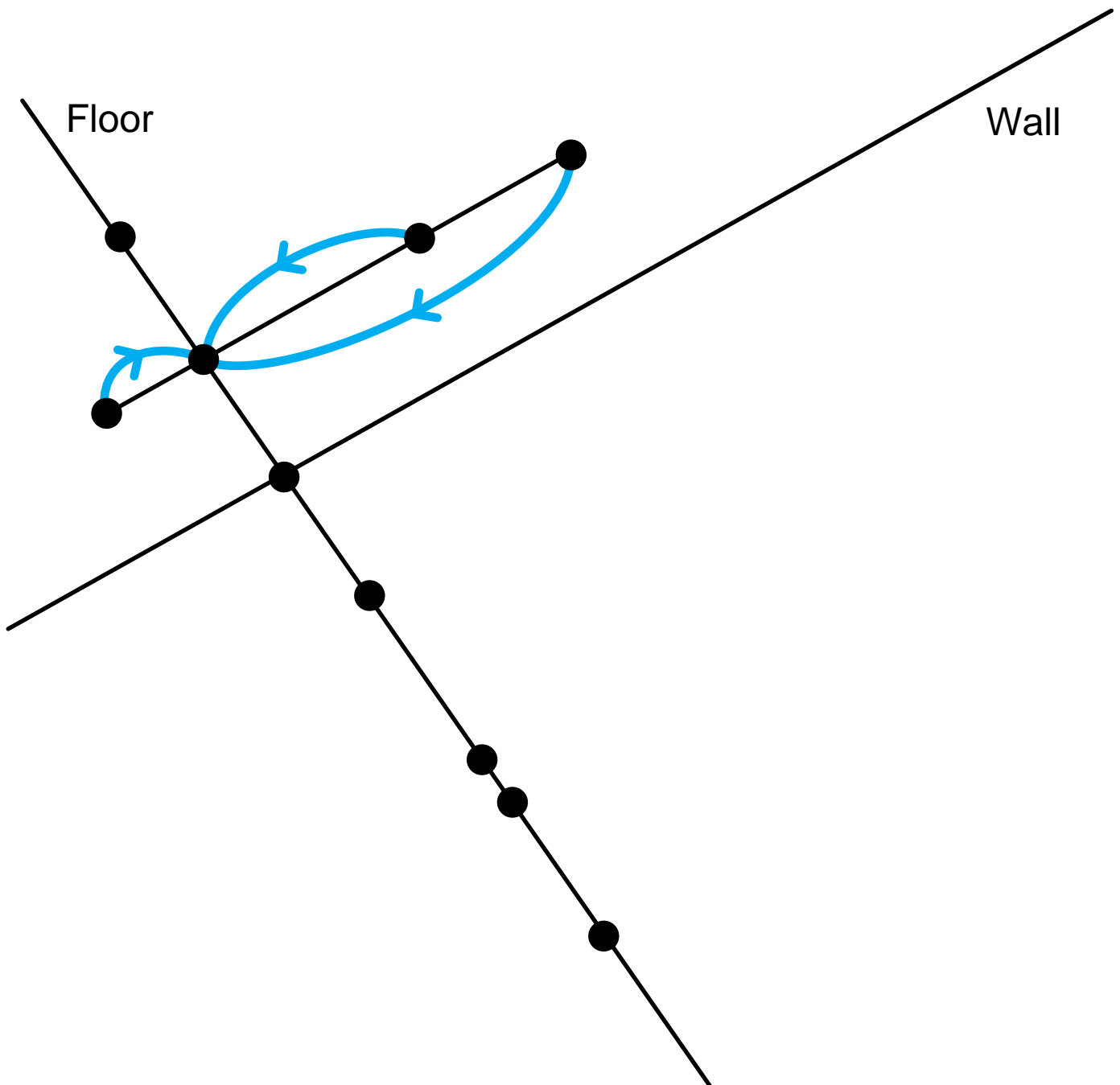


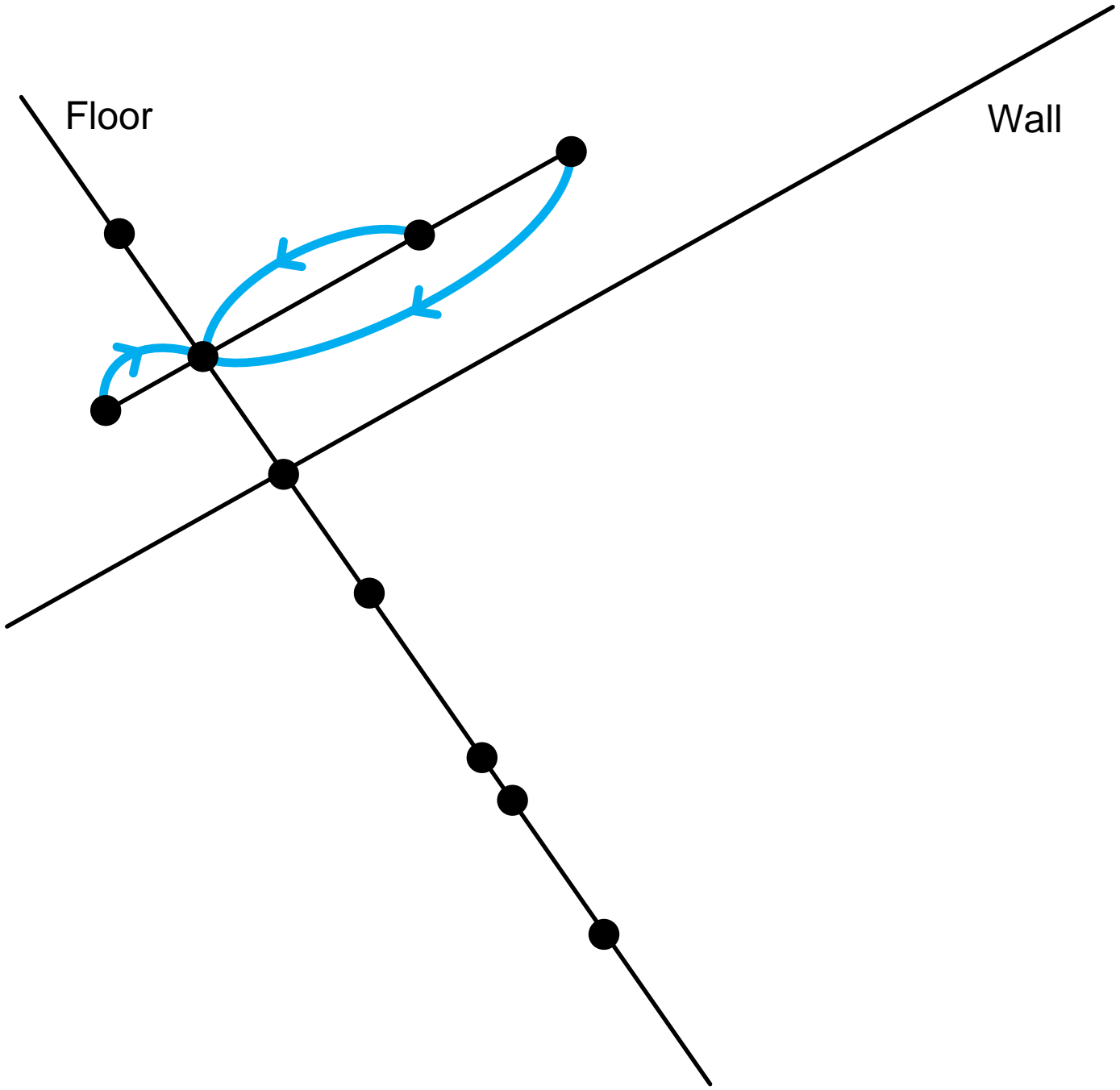


Name _____

G4 **

Each point on the floor is the image of many points when they are projected onto the floor parallel to the wall. An example of three points with the same image point on the floor is given here. For each point on the floor, find many points all having this point as its image. Draw a blue arrow from a point to its image.





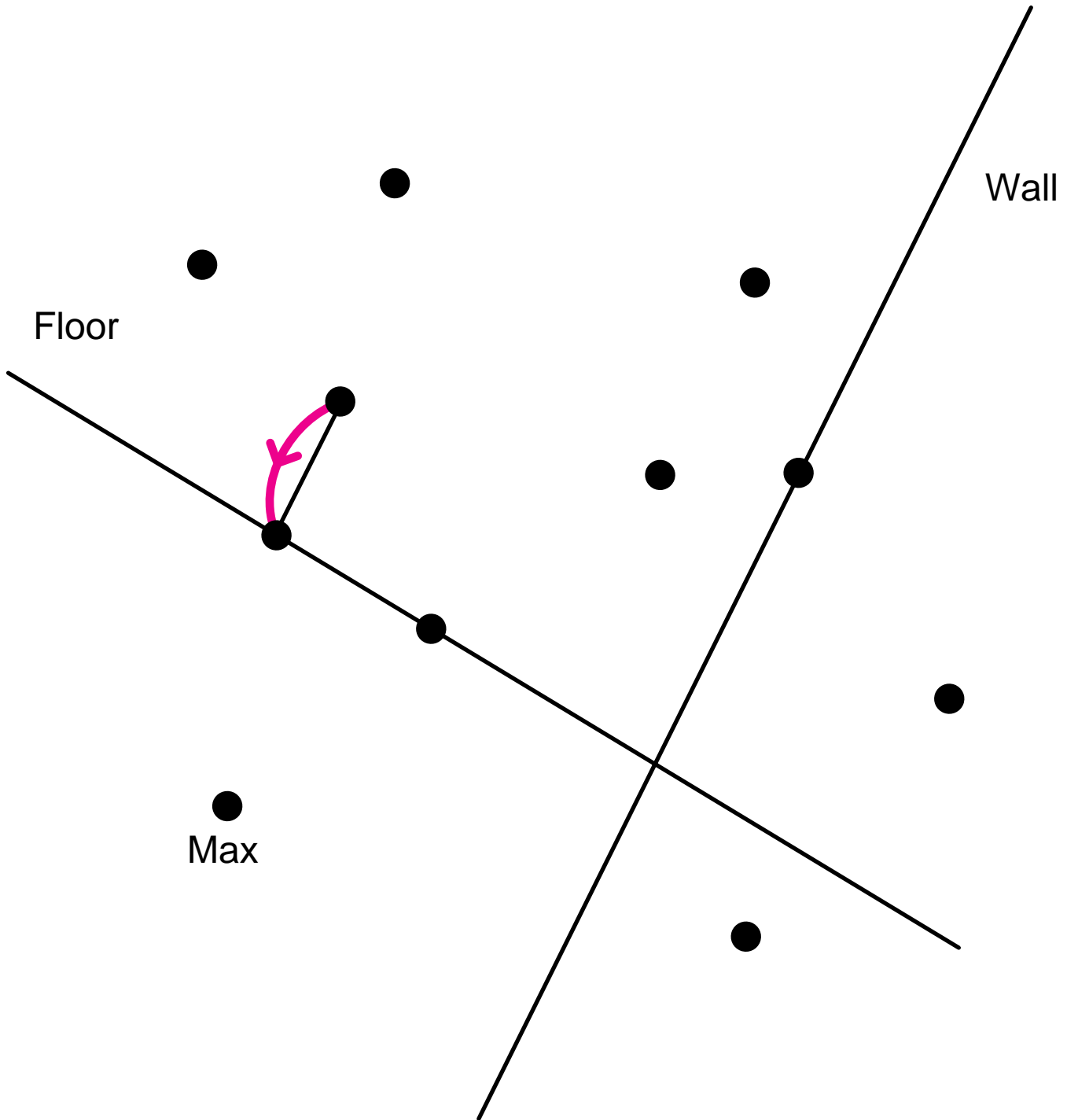
Floor

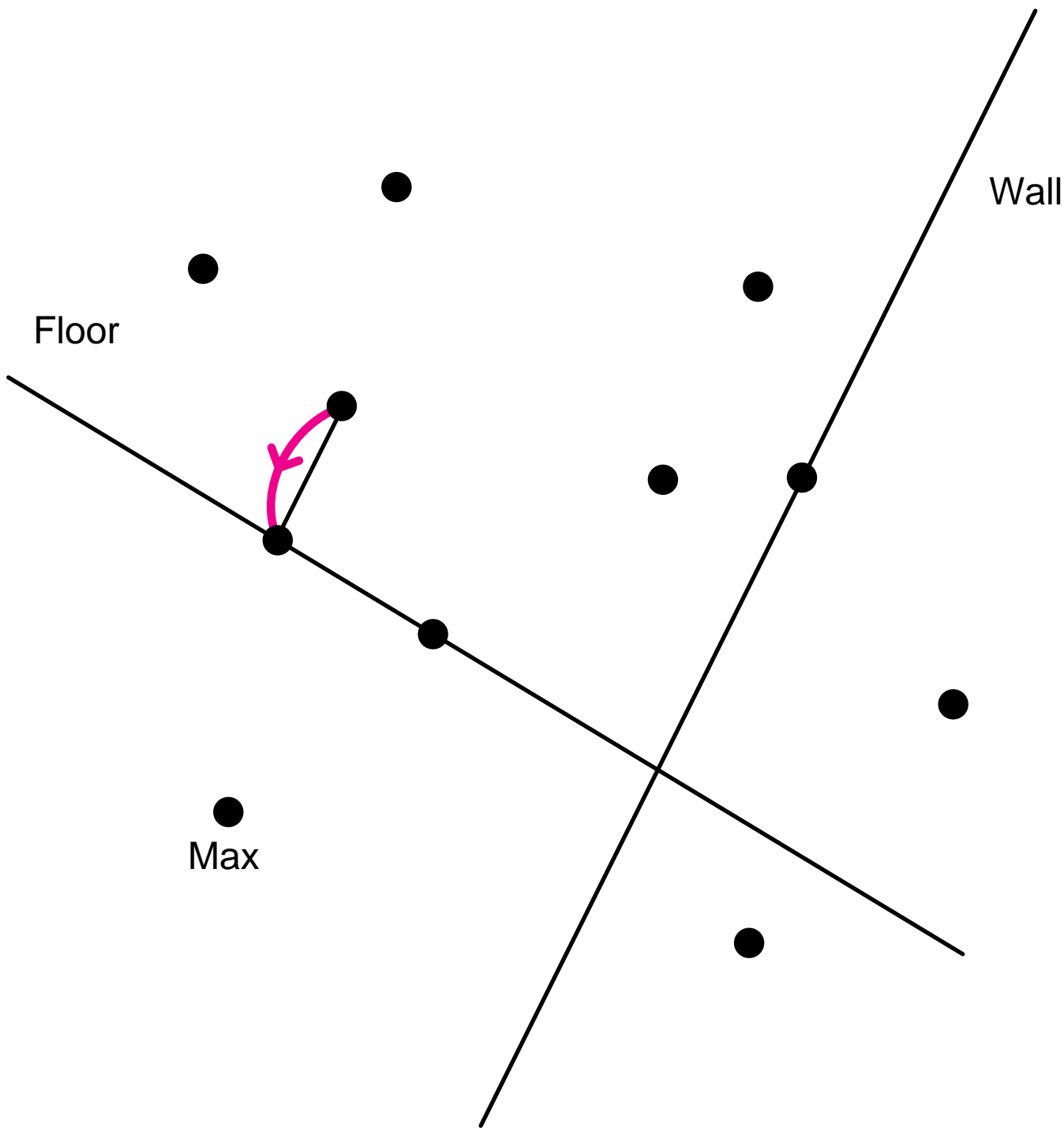
Wall

Name _____

G5 *

Project each point onto the floor parallel to the wall.
Then find some other points that have the same image as Max.





Floor

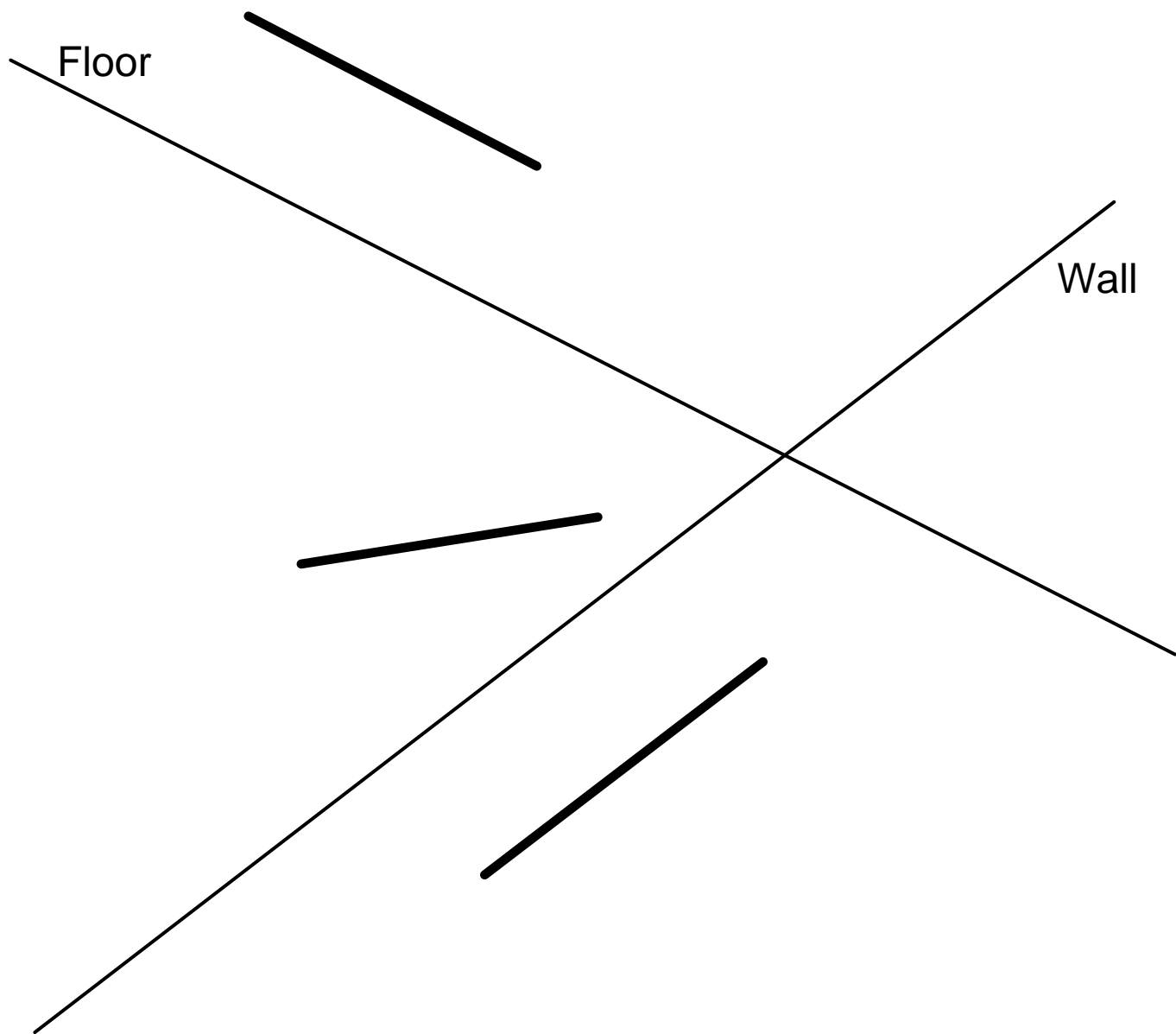
Wall

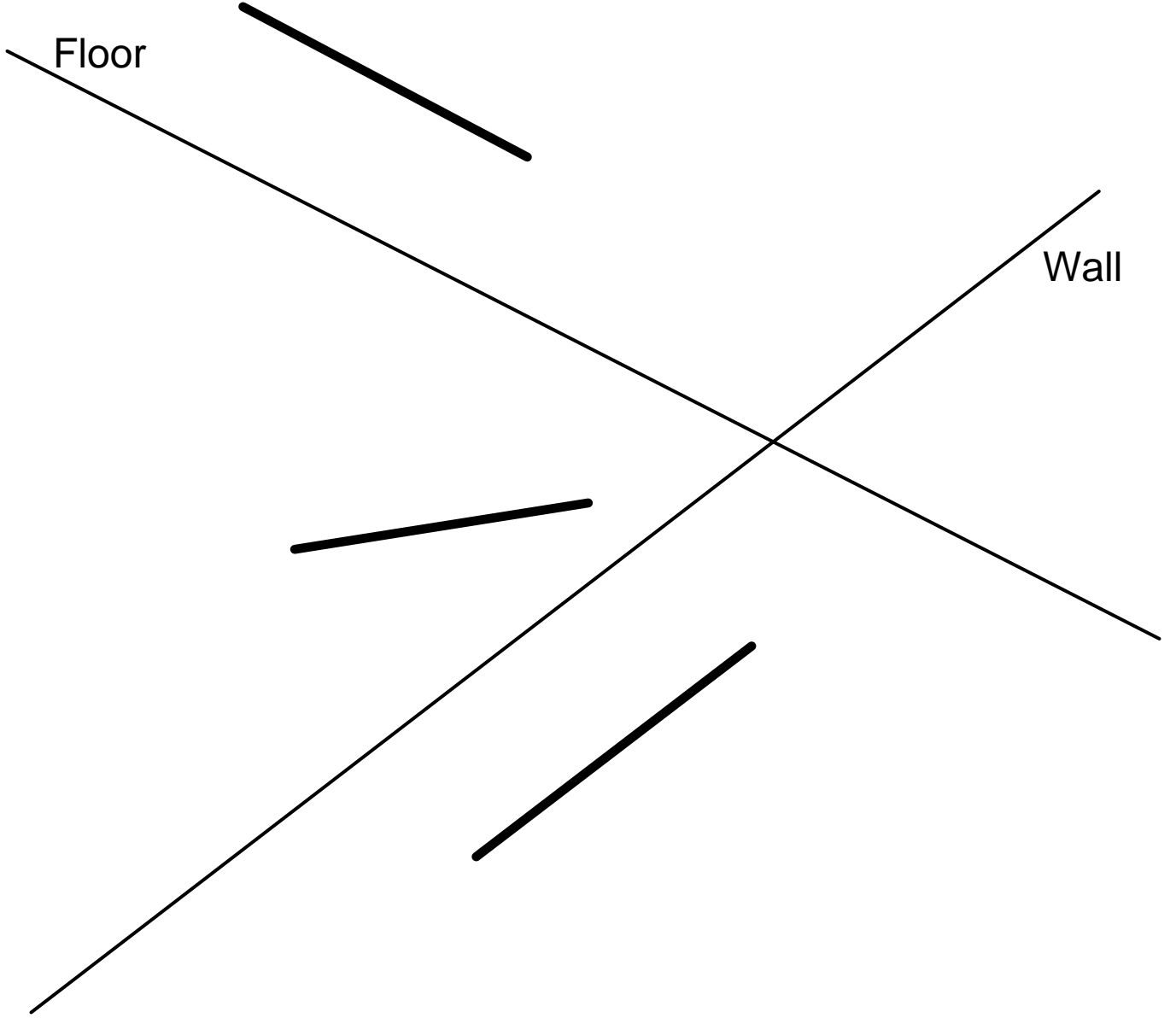
Max

Name _____

G5 **

Project the three line segments onto the floor parallel to the wall.
Use a different color for the image of each line segment.

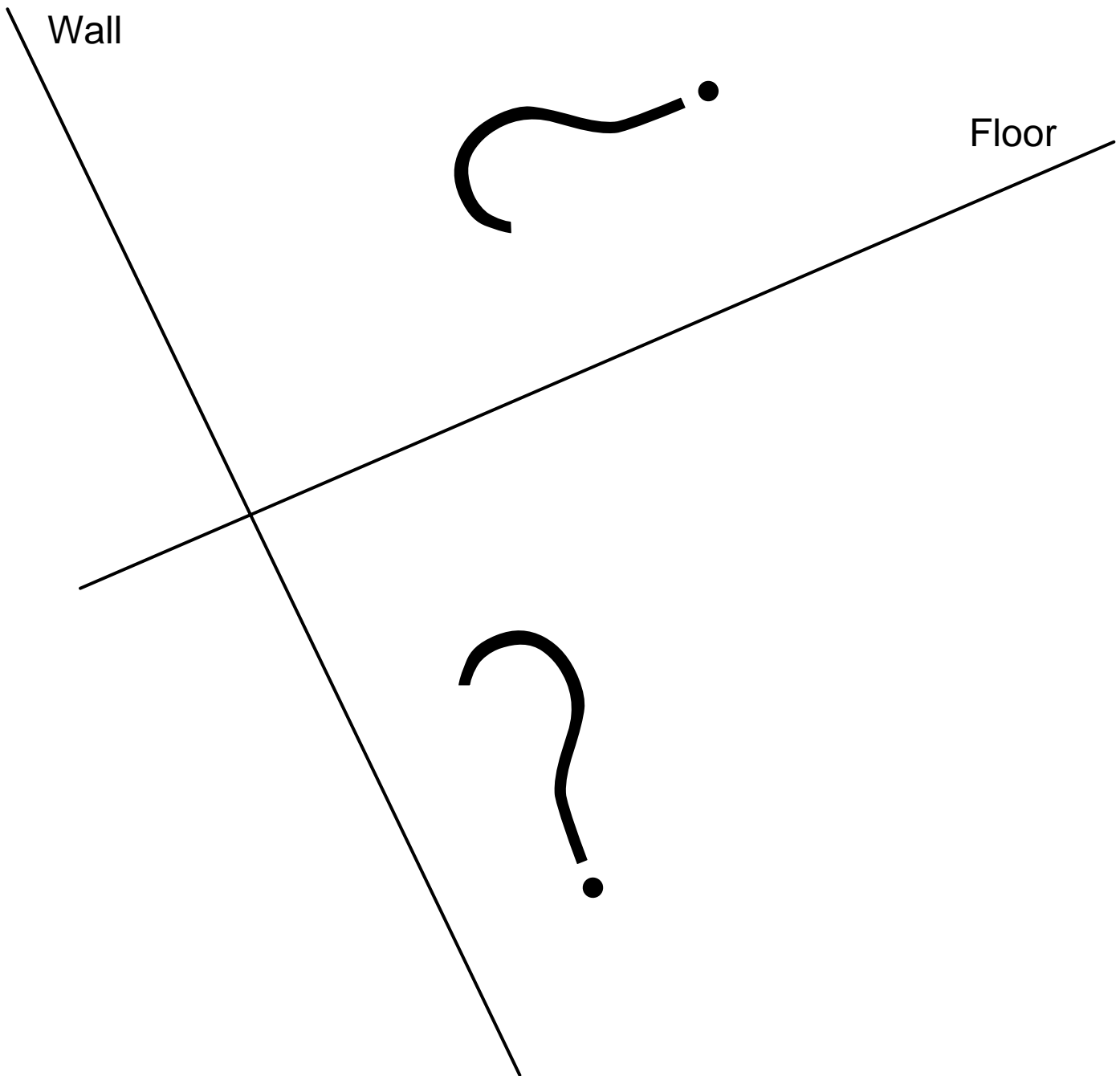




Name _____

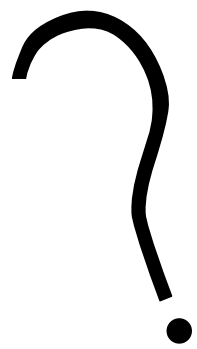
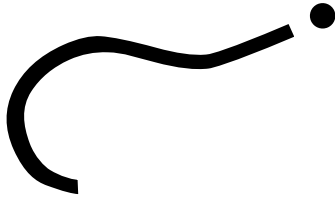
G5 ***

Project each question mark onto the floor parallel to the wall.
Use different colors for the two images.
Be careful, each question mark has two pieces.



Wall

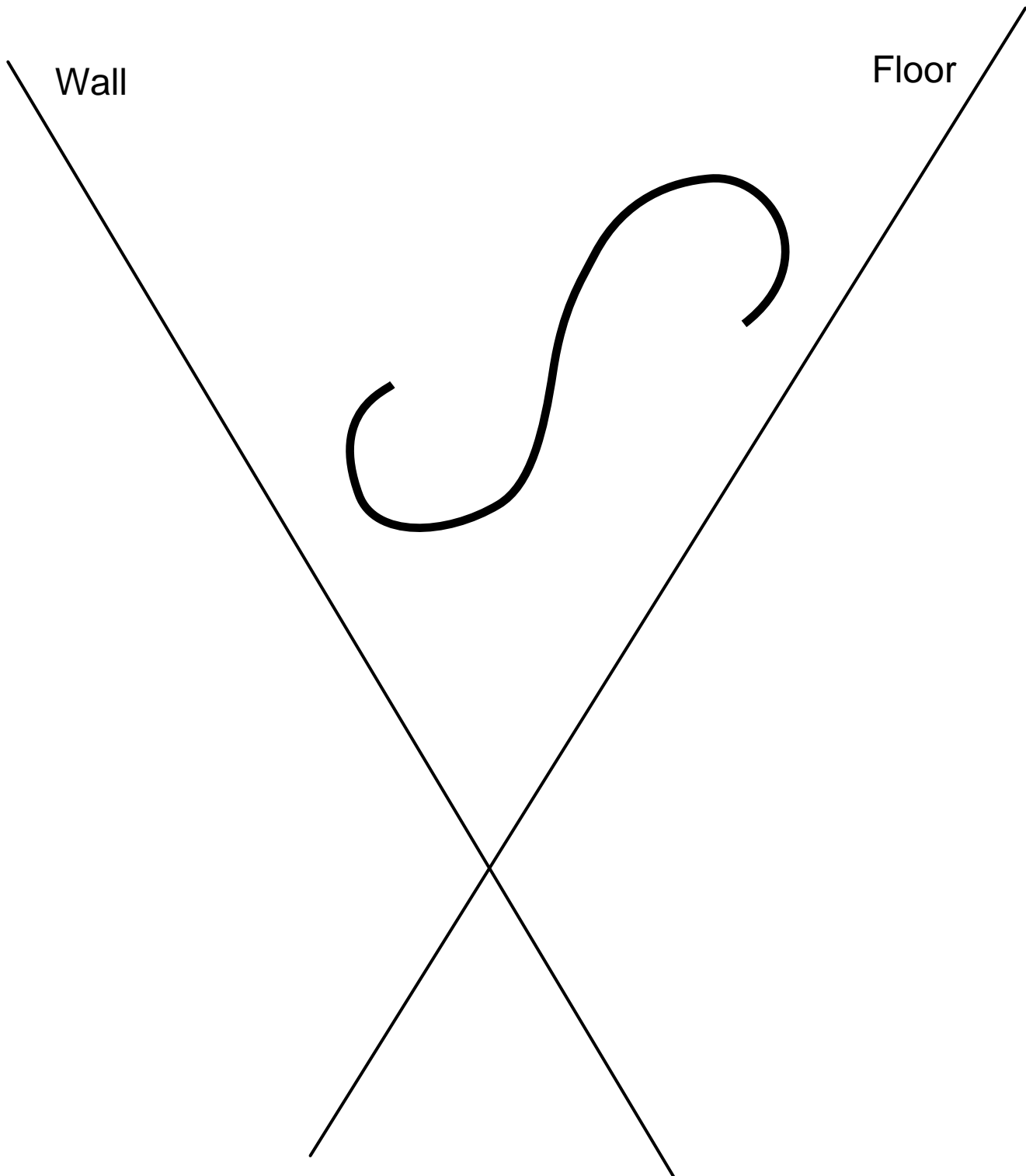
Floor

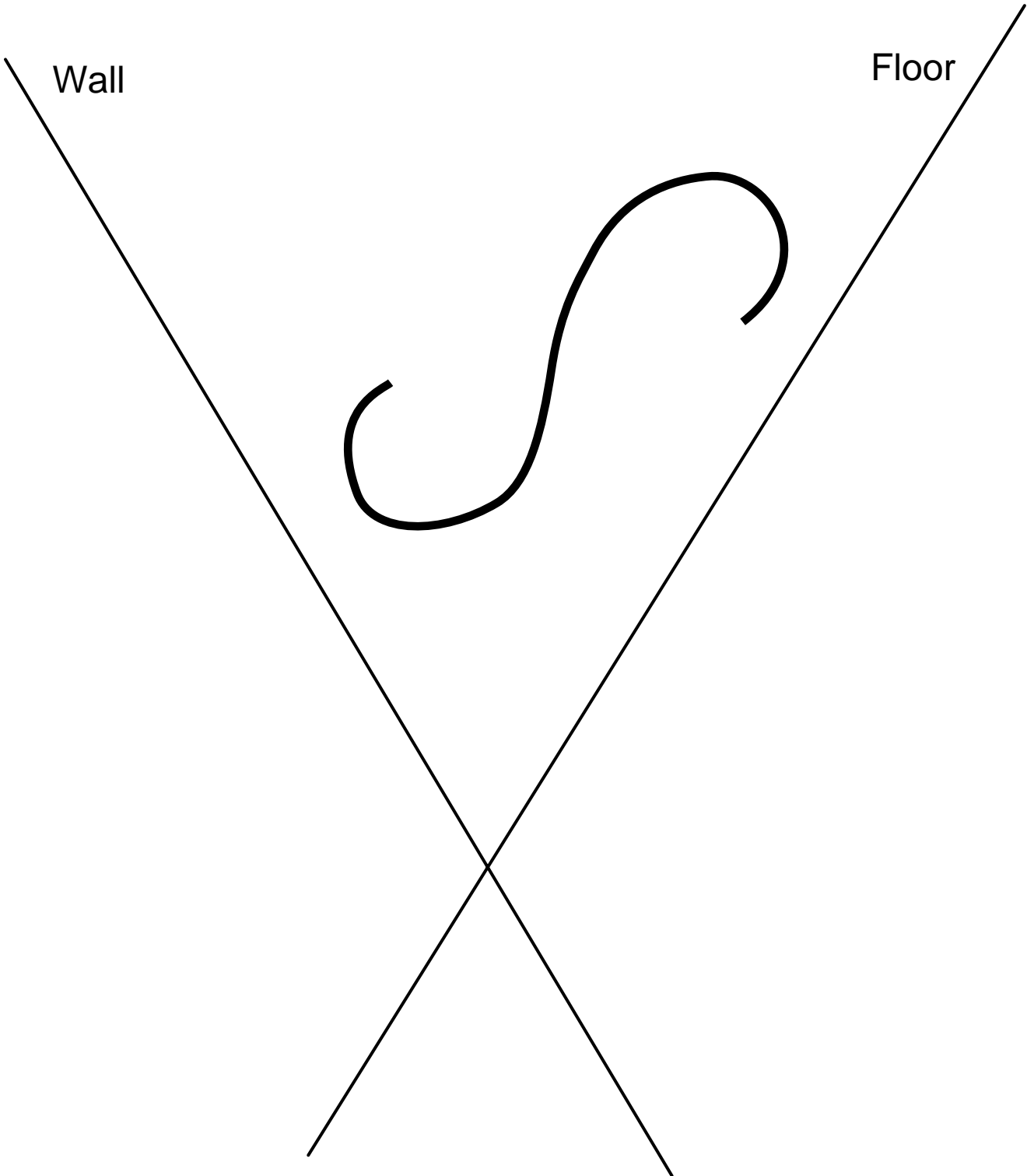


Name _____

G5 *****

Project this graceful curve onto the floor parallel to the wall.
Show the image in red.

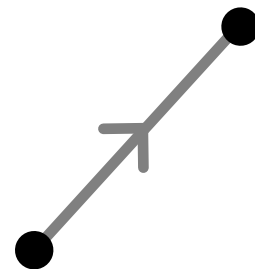
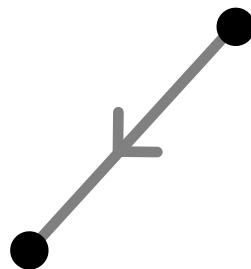
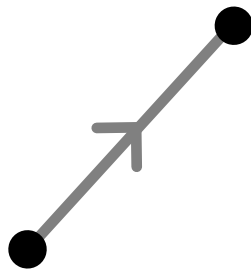
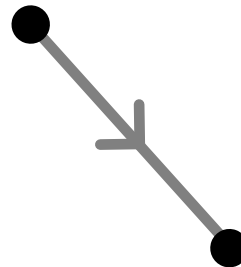
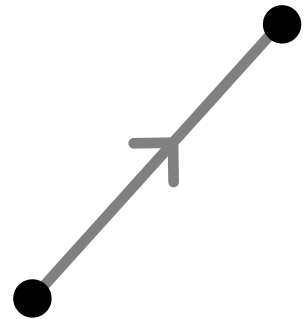
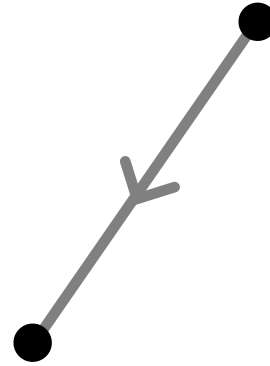
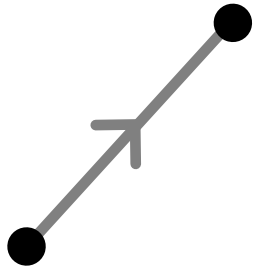
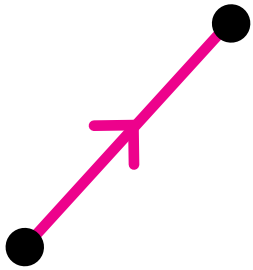




Name _____

G6

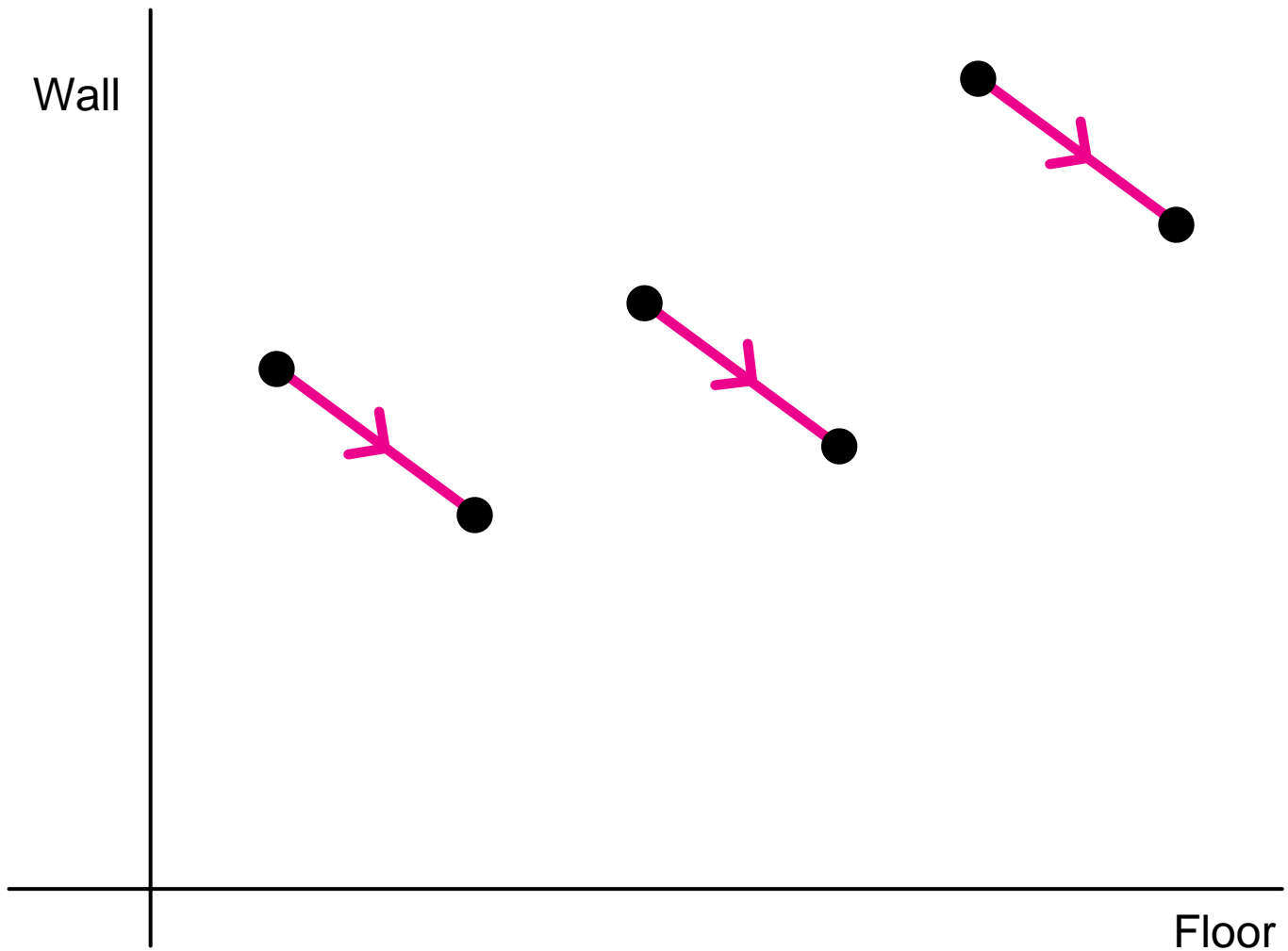
Find couples equipollent to the red couple and color them red.



Name _____

G6 *

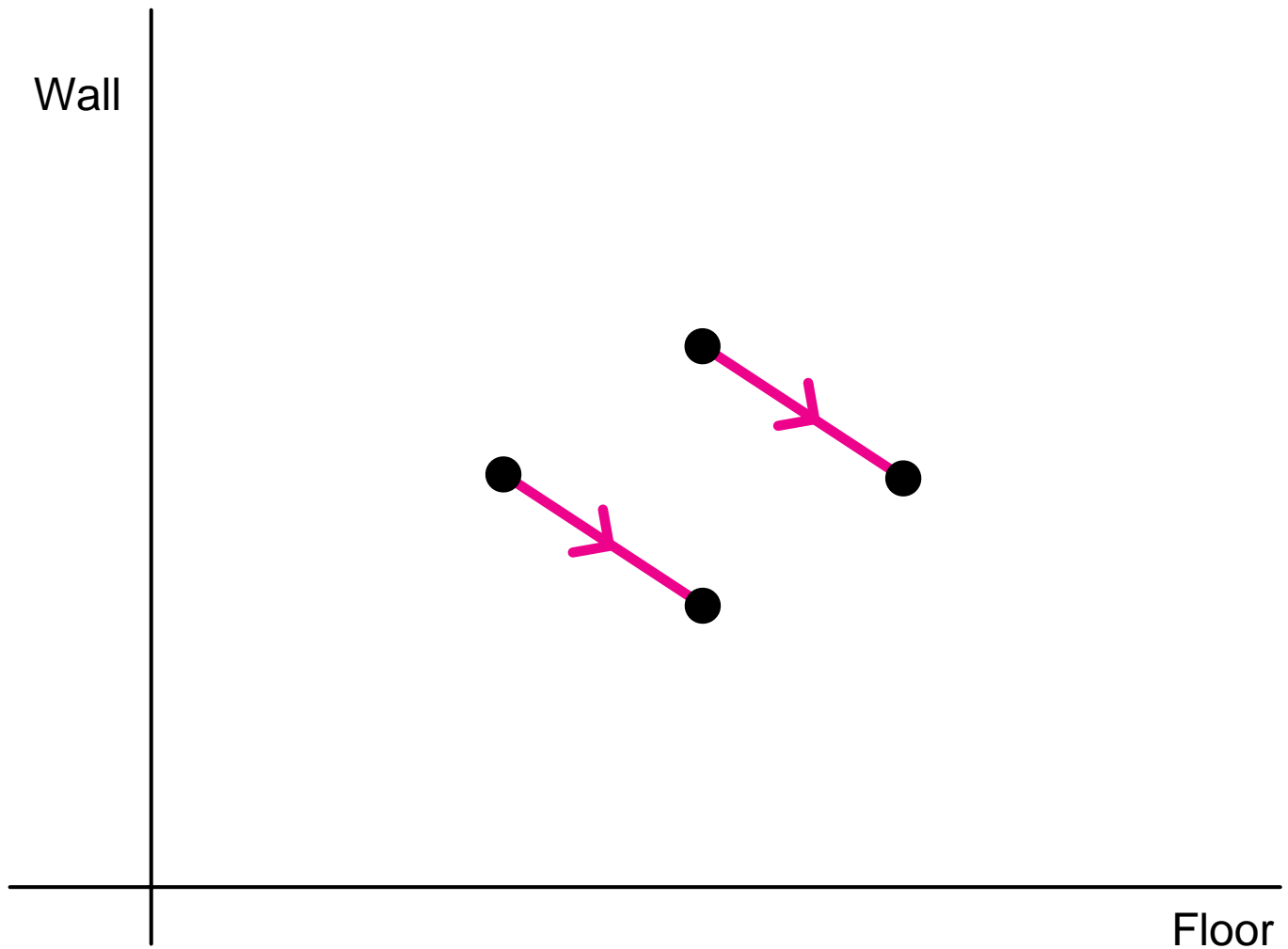
Project the equipollent couples shown in red onto the floor parallel to the wall. Show that the images are equipollent couples.



Name _____

G6 **

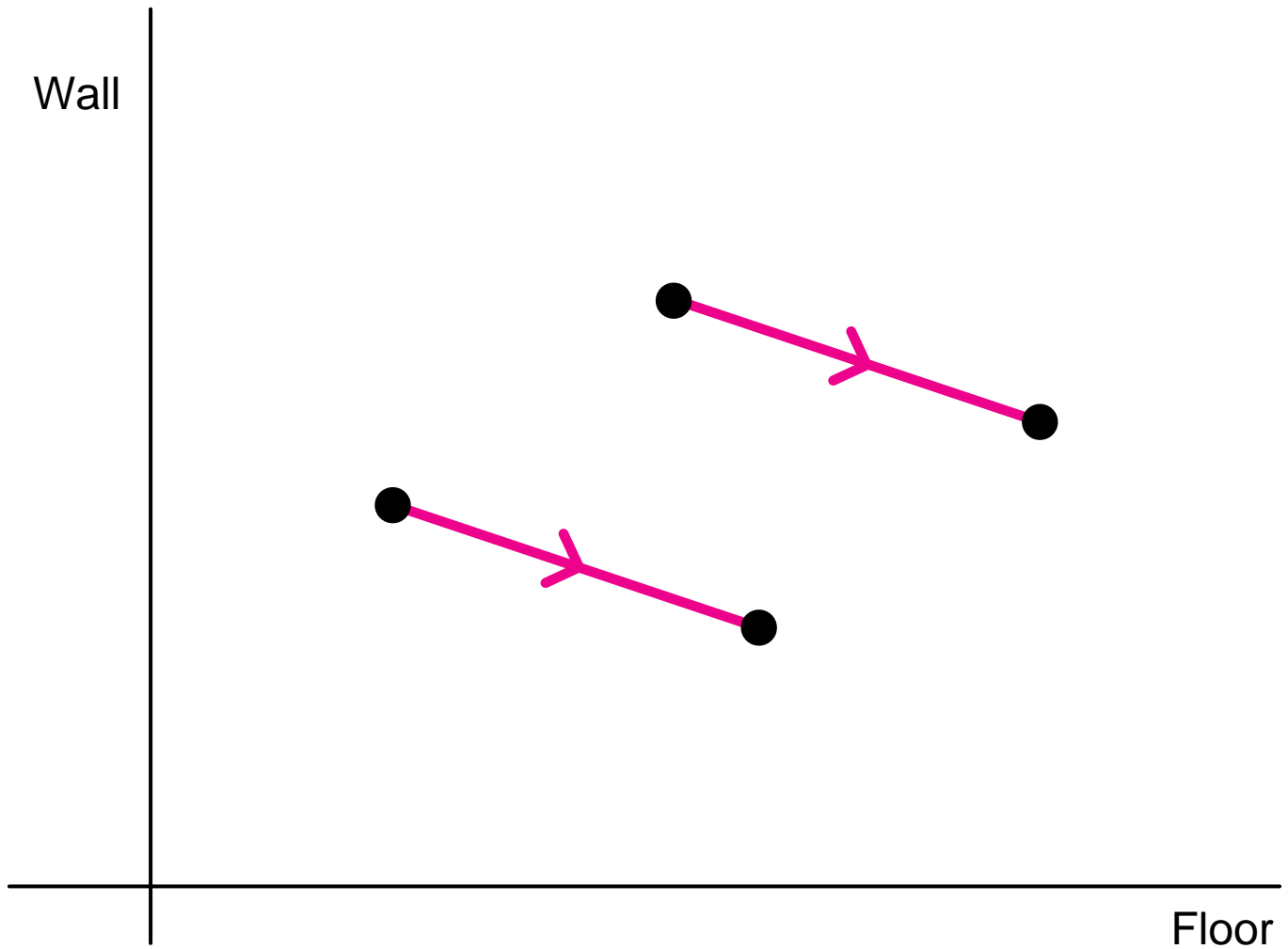
Project the equipollent couples shown in red onto the floor parallel to the wall. Show that the images are equipollent couples.



Name _____

G6 ***

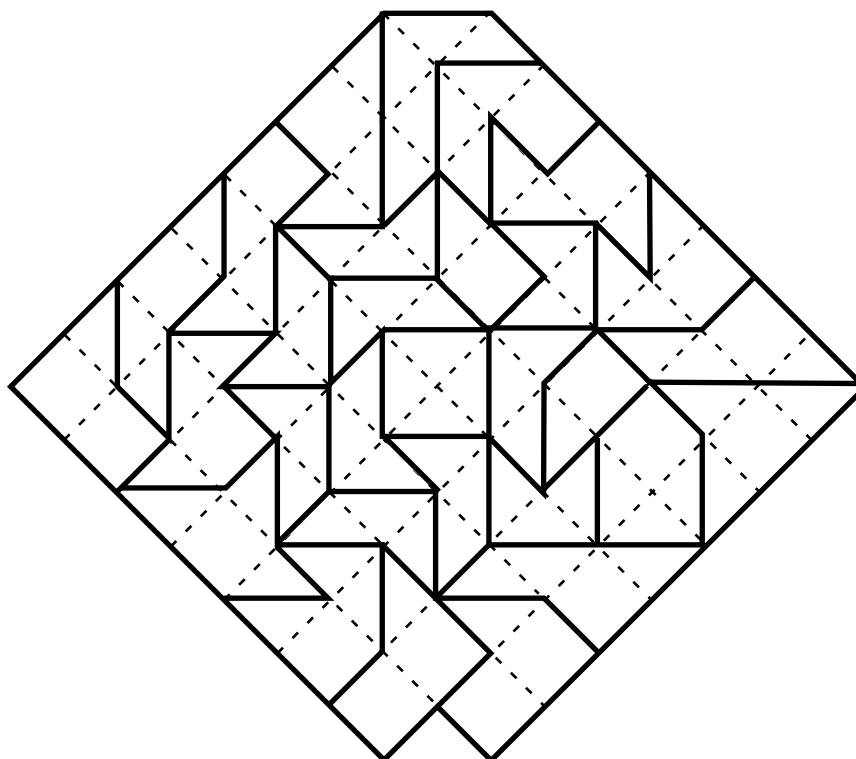
Project the equipollent couples shown in red onto the floor parallel to the wall. Show that the images are equipollent couples.

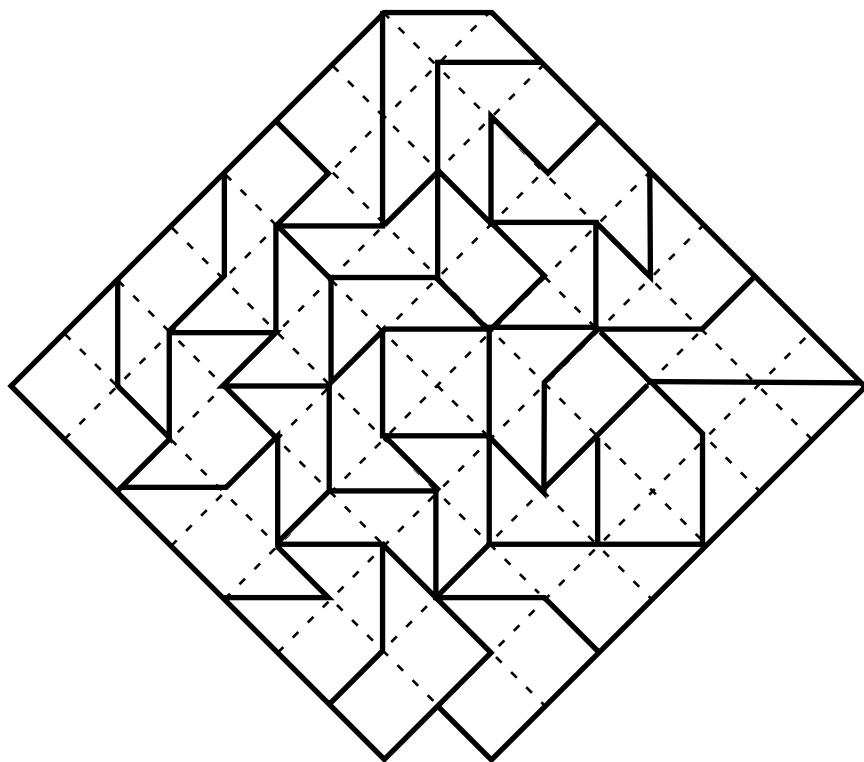


Name _____

Color all shapes of area 1.5 cm^2 with the same color.

Use another color to color all shapes of area 2.5 cm^2 .



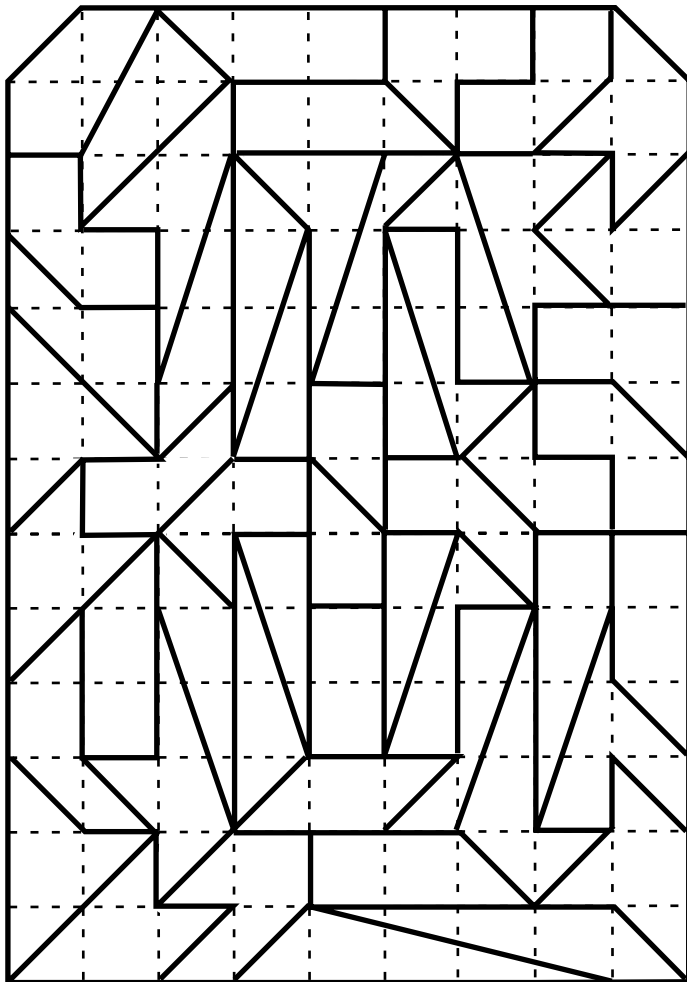


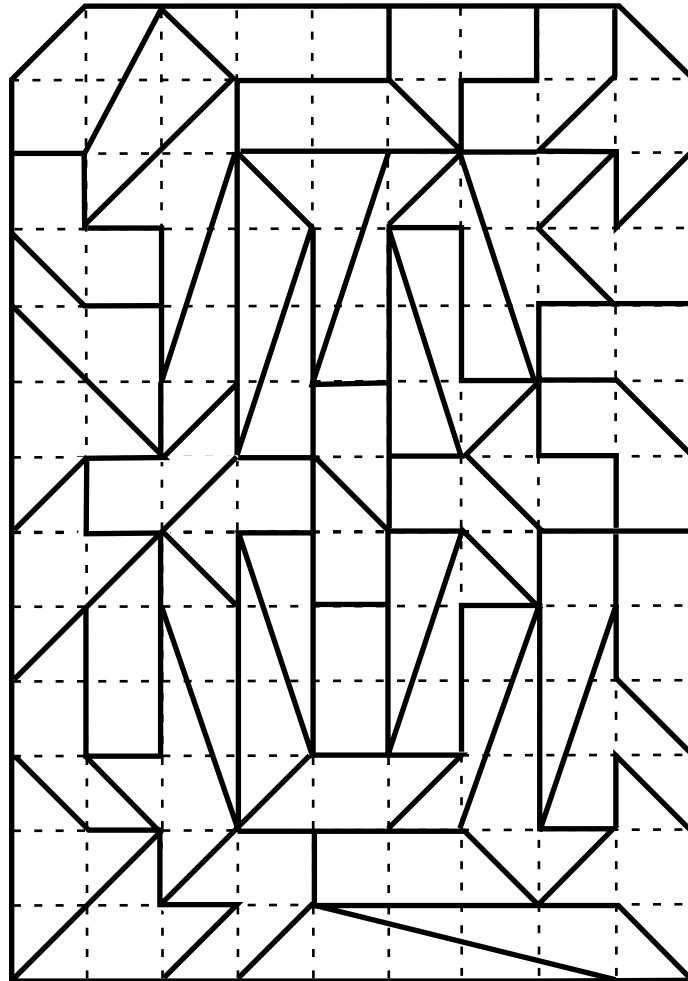
Name _____

Use one color to color all shapes of area 1.5 cm^2 .

Use another color to color all shapes of area 2 cm^2 .

Use a third color to color all shapes of area 2.5 cm^2 .



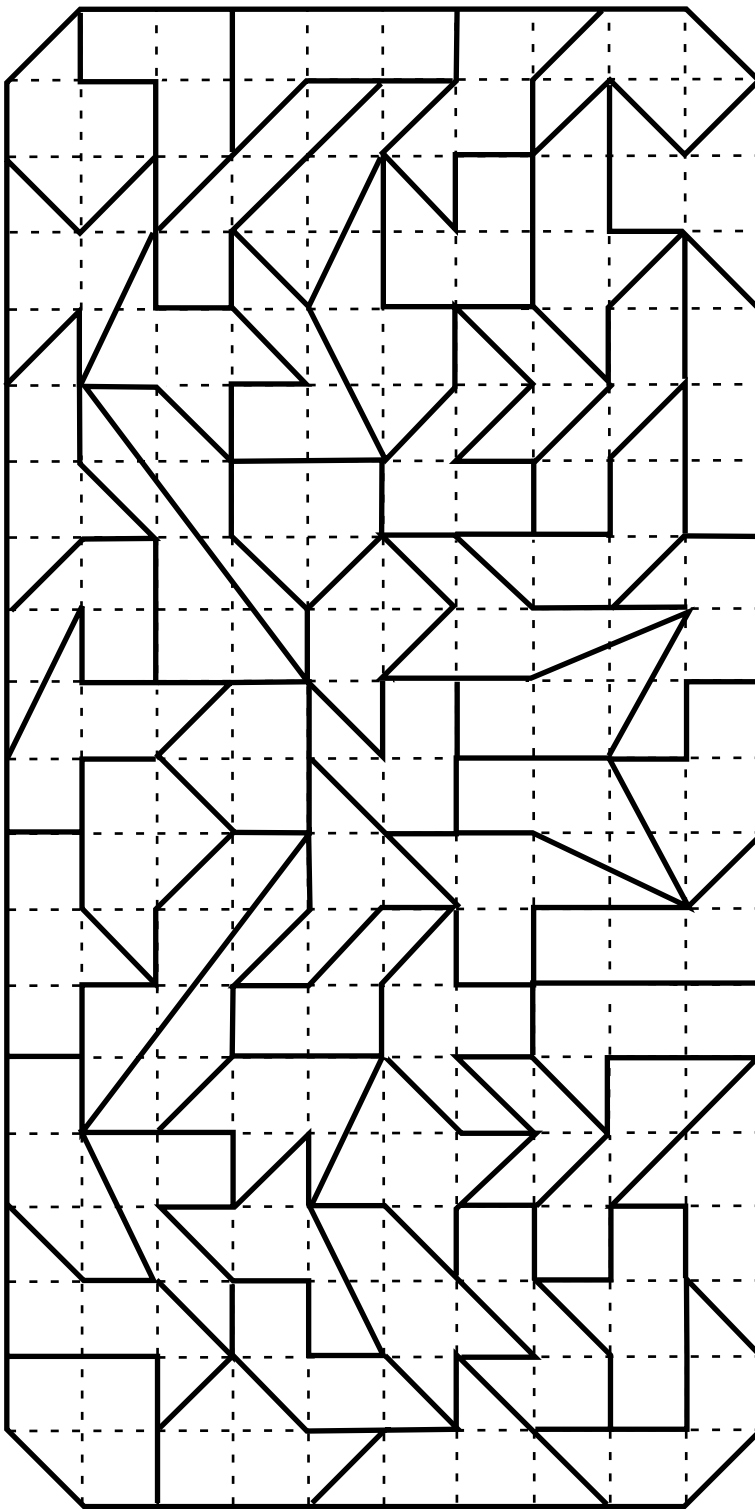


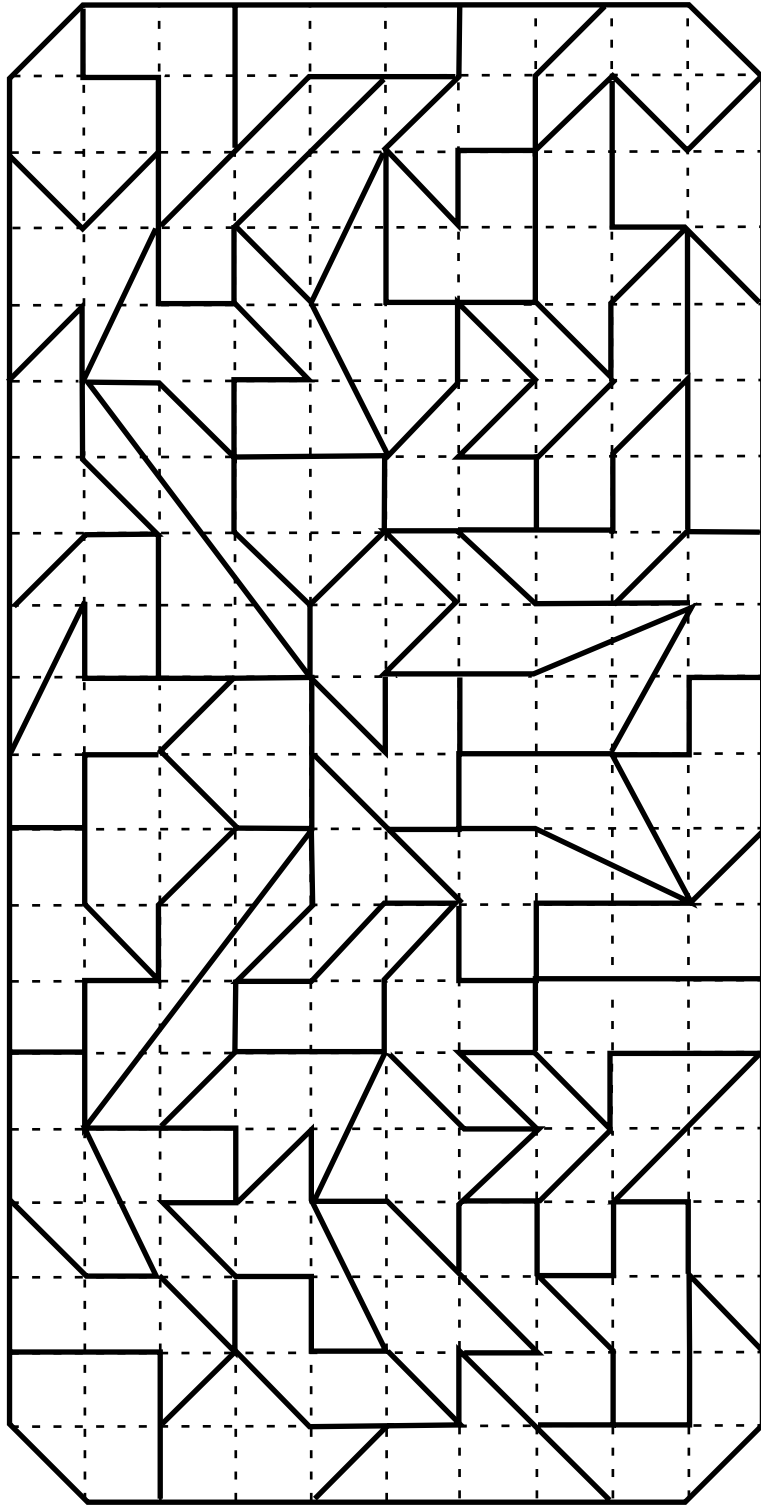
Name _____

Use one color to color all shapes of area 2 cm^2 .

Use another color to color all shapes of area 3 cm^2 .

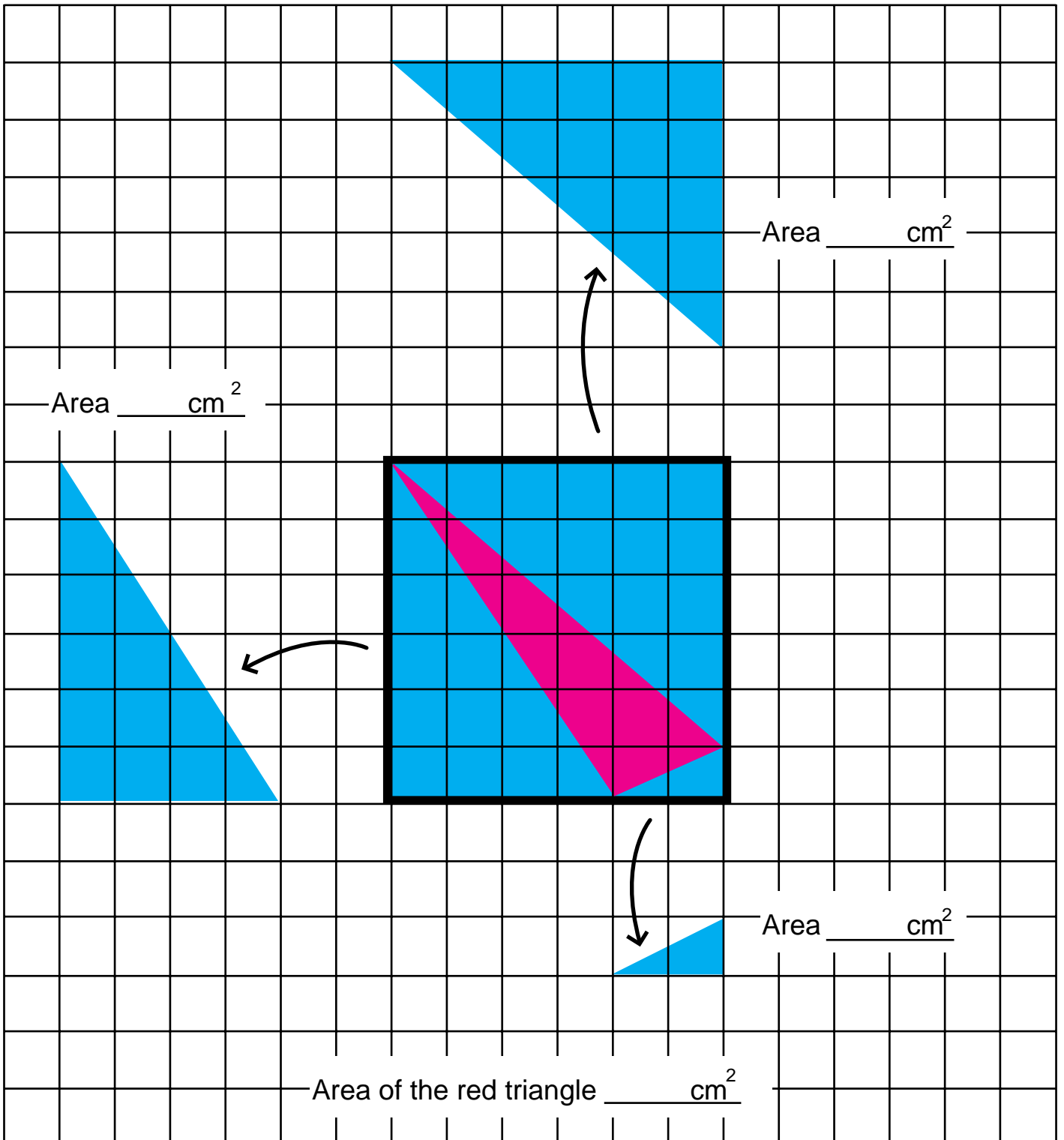
Use a third color to color all shapes of area 3.5 cm^2 .





Name _____

Find the area of the red triangle by first finding the areas of the blue triangles.

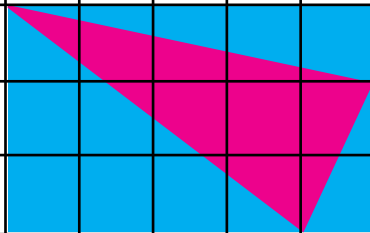


Name _____

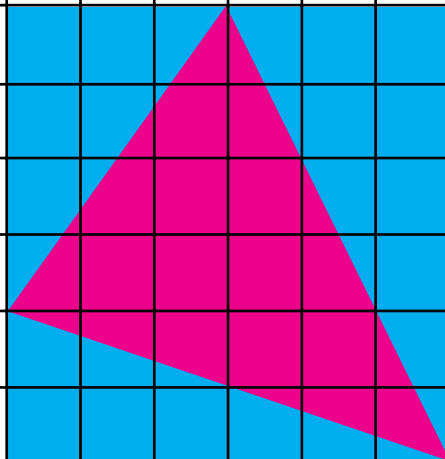
G8

**

Find the areas of the red triangles by first finding the areas of the blue triangles.



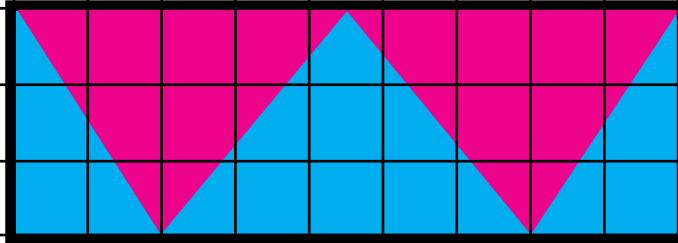
Area of the red triangle _____ cm^2



Area of the red triangle _____ cm^2

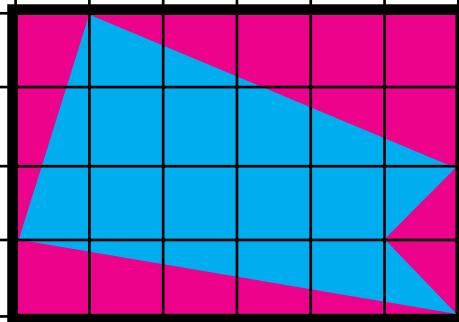
Name _____

Find the areas of the red and blue pieces in each picture.



Total area of the red pieces _____ cm^2

Total area of the blue piece _____ cm^2



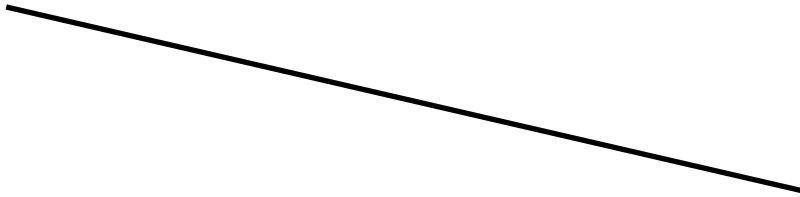
Total area of the red pieces _____ cm^2

Total area of the blue piece _____ cm^2

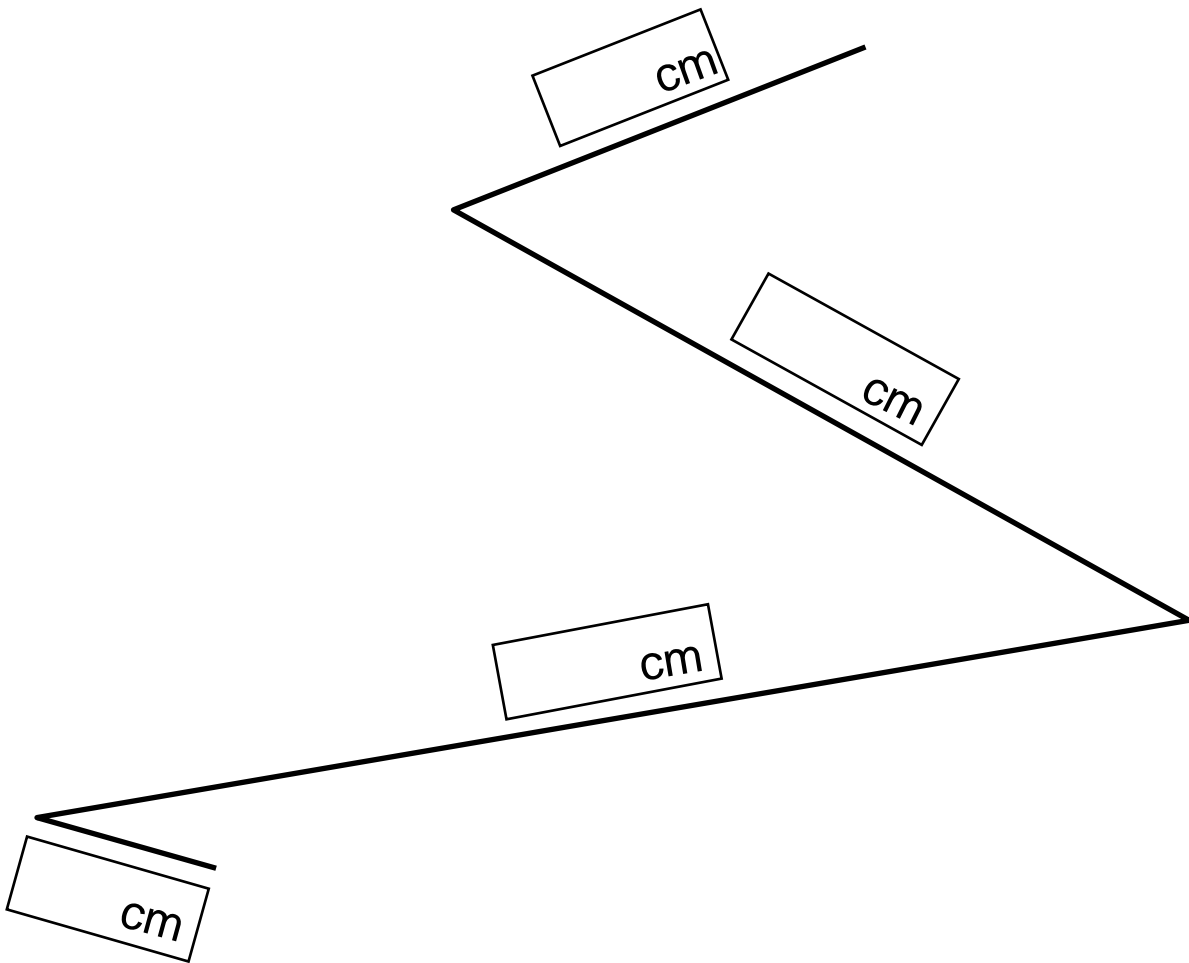
Name _____

G12(a)

Measure to the nearest millimeter.



The length of this line segment is _____ cm = _____ mm.

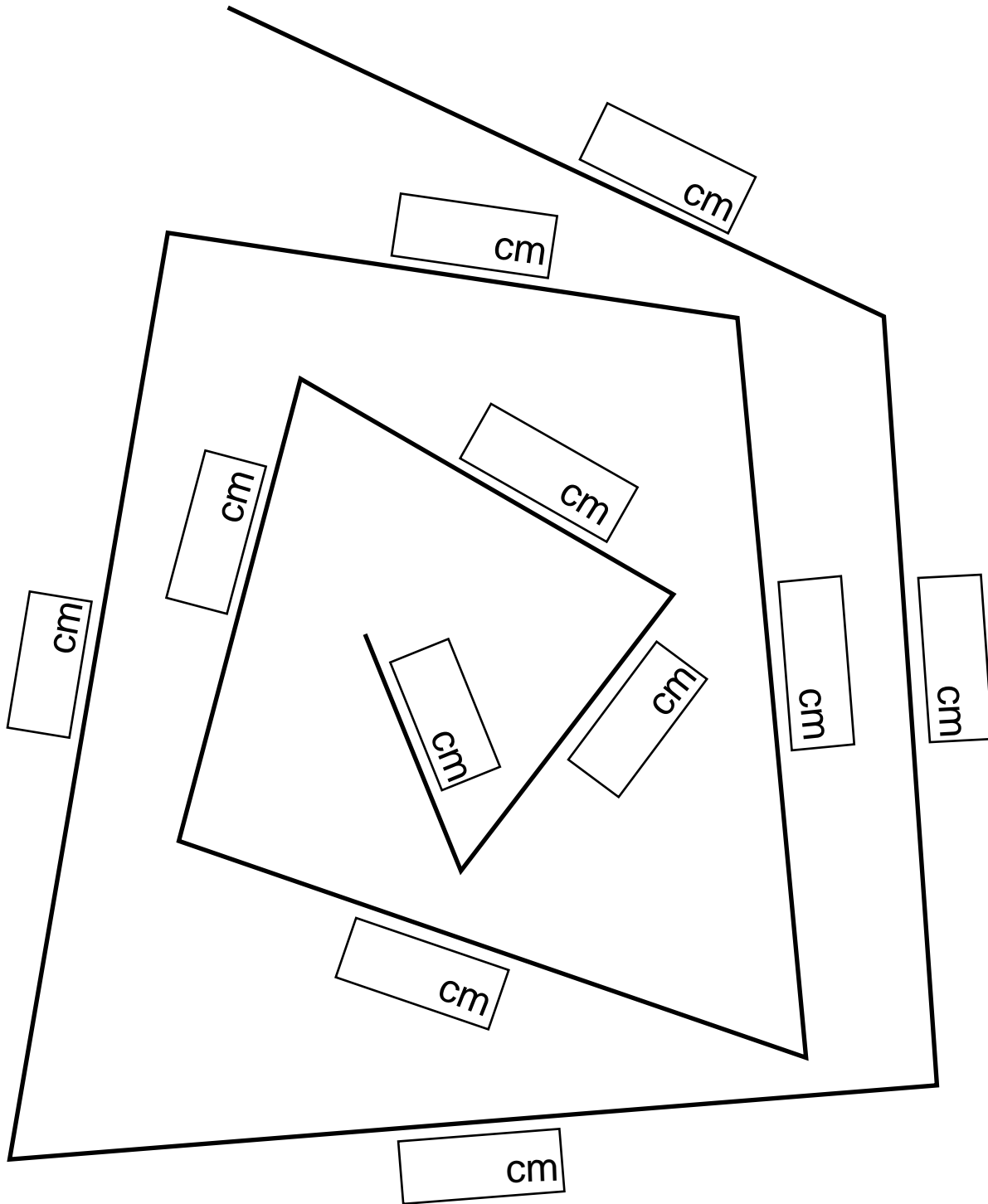


The total length of the zigzag is _____ cm = _____ mm.

Name _____

G12(b)

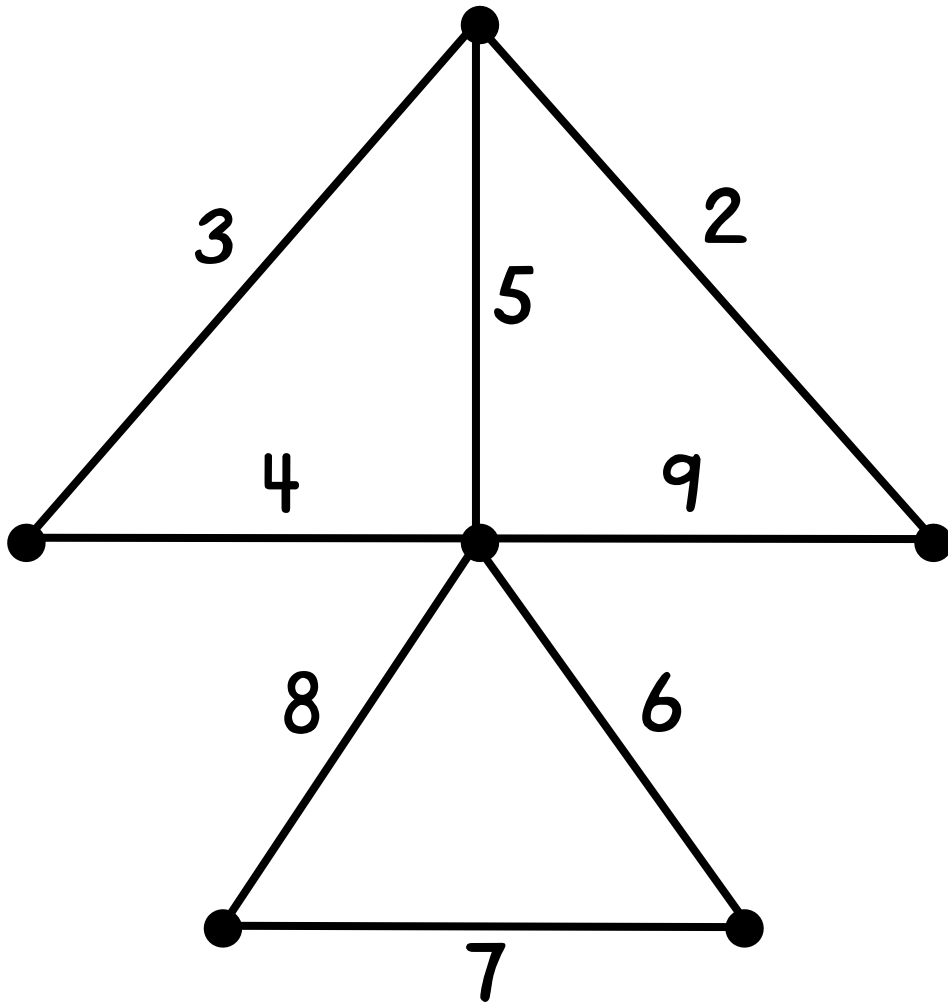
Measure to the nearest millimeter.



The total length of the zigzag is _____ cm = _____ mm.

Name _____

Find a route going to each town exactly once.
Make your route as short as possible.



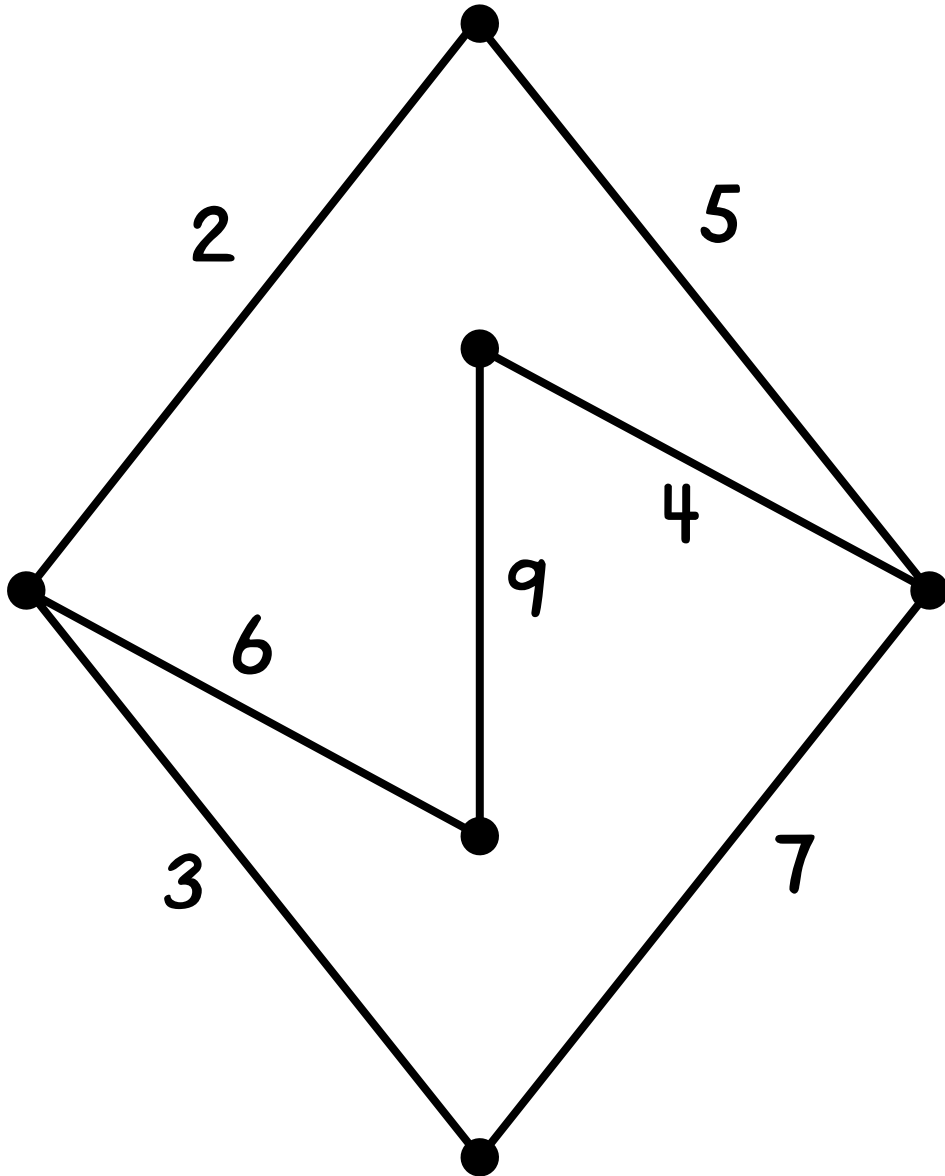
How long is your route? _____

Is it less than 24 long? _____

Name _____

G13 **

Find a route going to each town exactly once.
Make your route as short as possible.

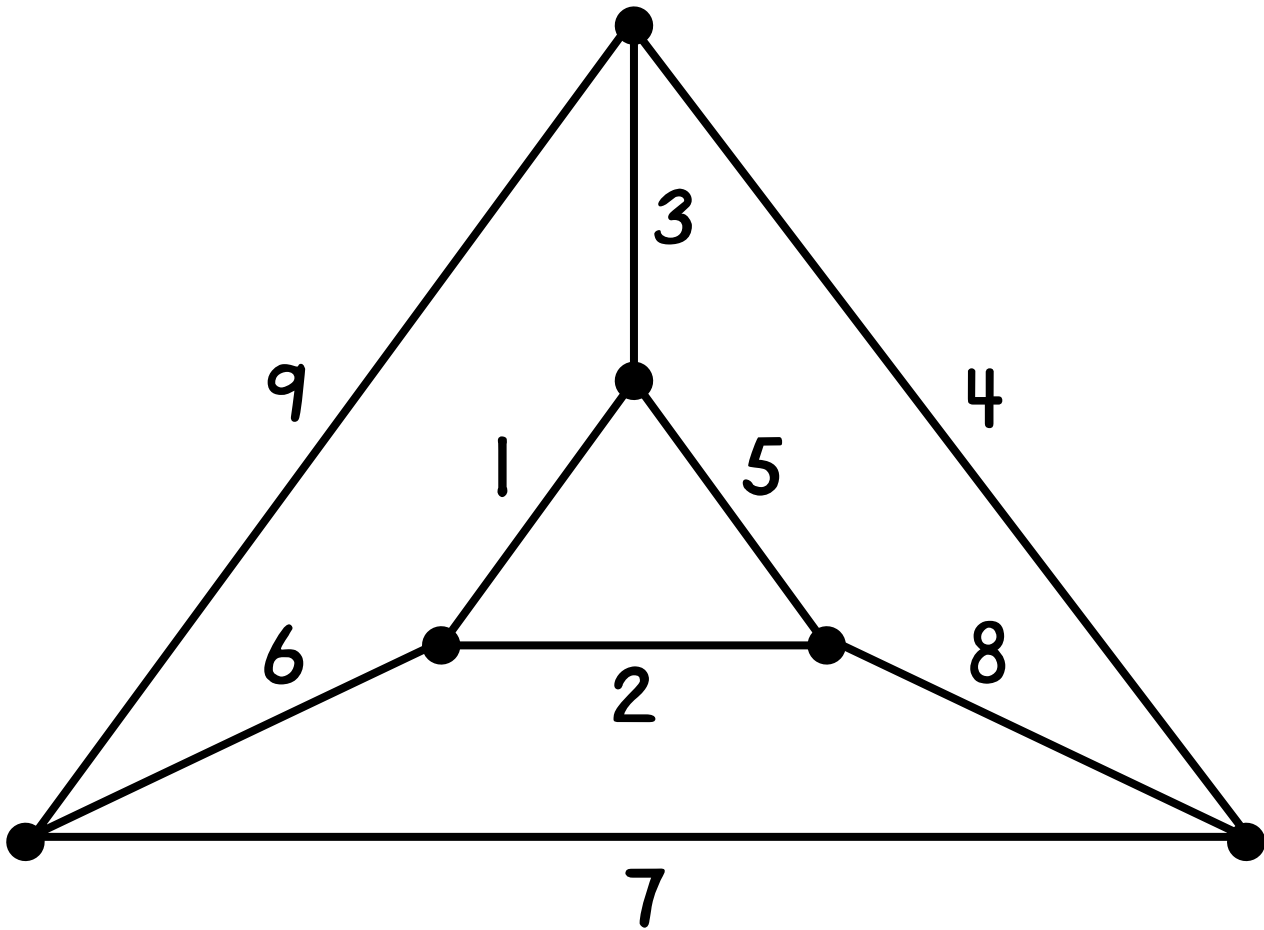


How long is your route? _____

Name _____

G13 ***

Find a round trip going to each town exactly once.
Make your trip as short as possible.

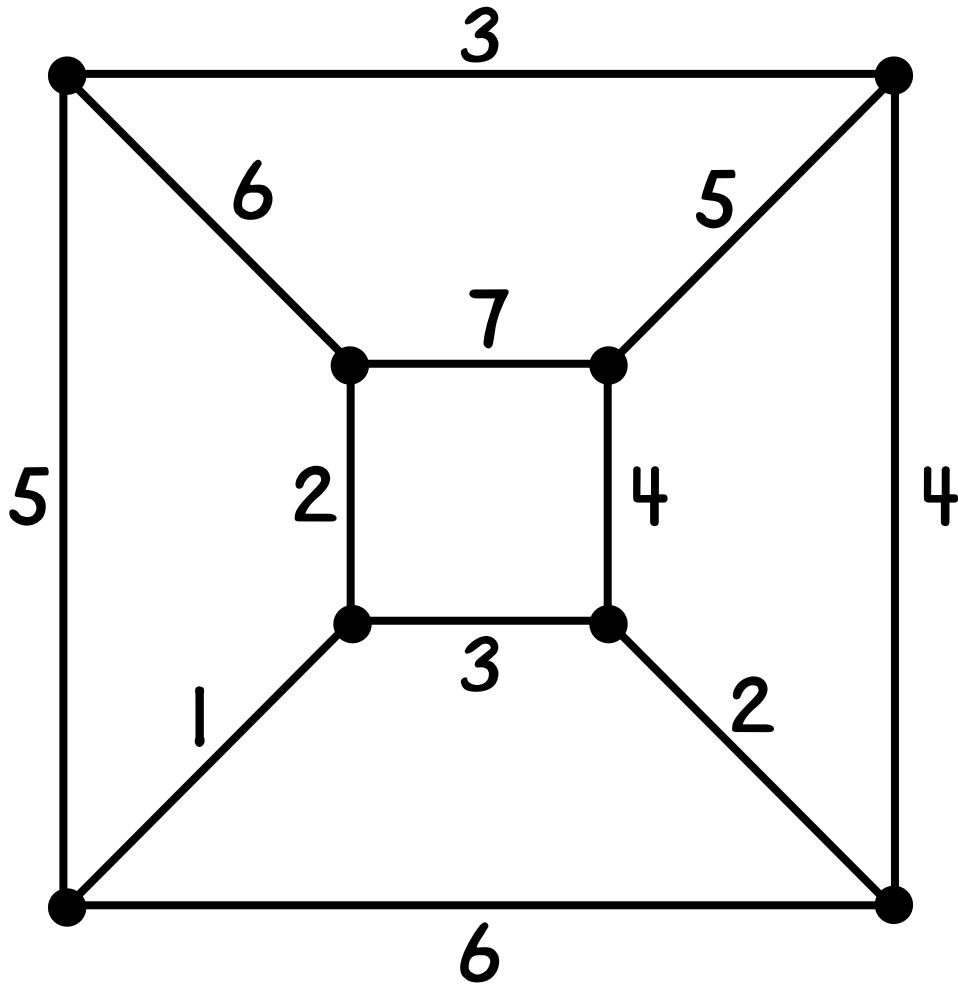


How long is your round trip? _____

Name _____

G13 ****

Find the shortest possible round trip going to each city exactly once.



How long is the shortest possible round trip? _____

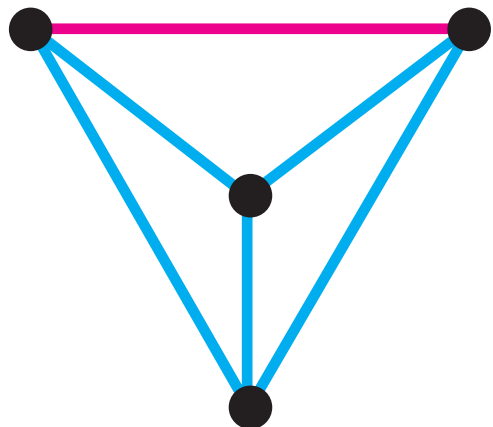
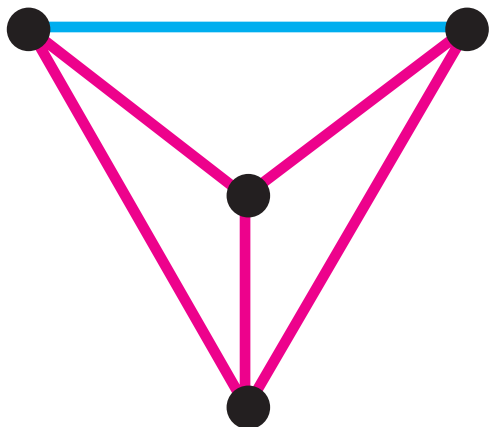
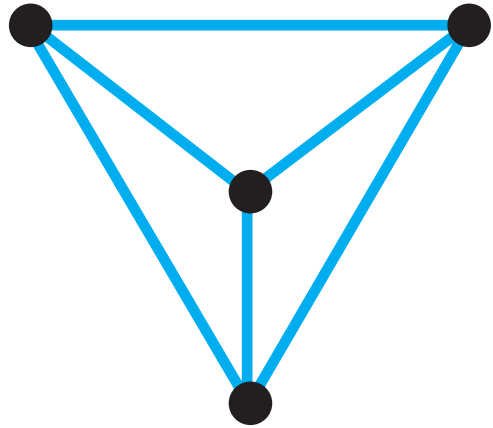
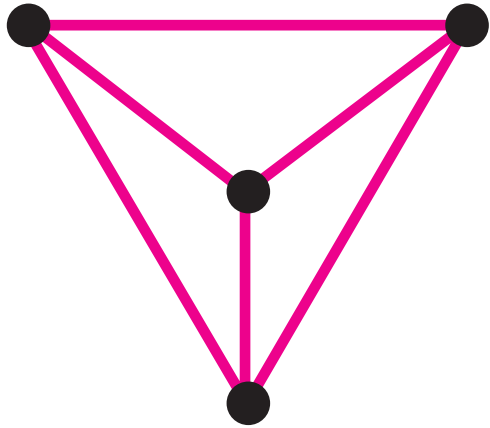
Name _____

W4(a)

Label the dots. If a cord picture is impossible, draw an X through it.

distance less than 10

distance 10 or more than 10



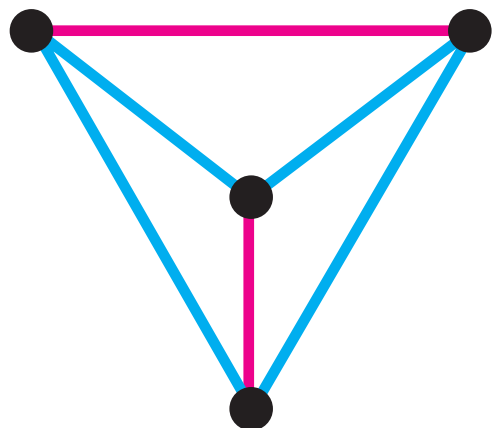
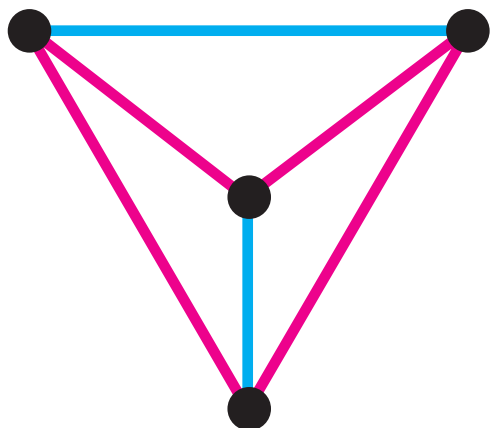
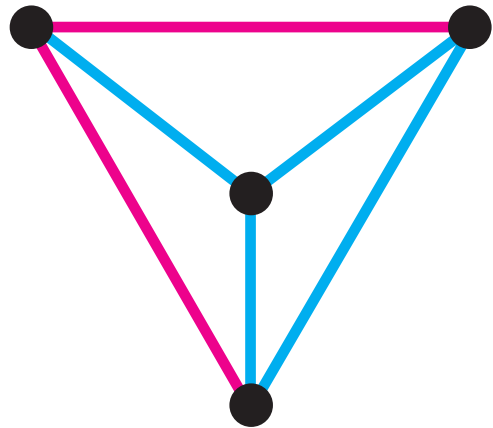
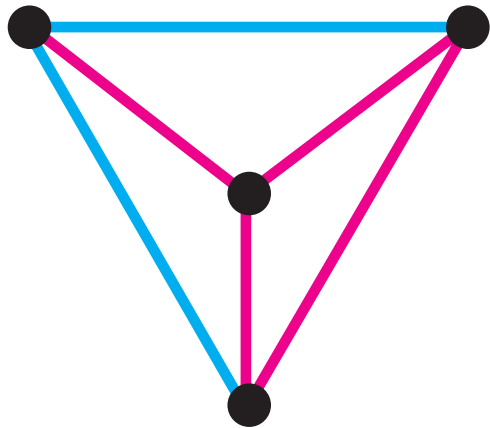
Name _____

W4(b)

Label the dots. If a cord picture is impossible, draw an X through it.

distance less than 10

distance 10 or more than 10



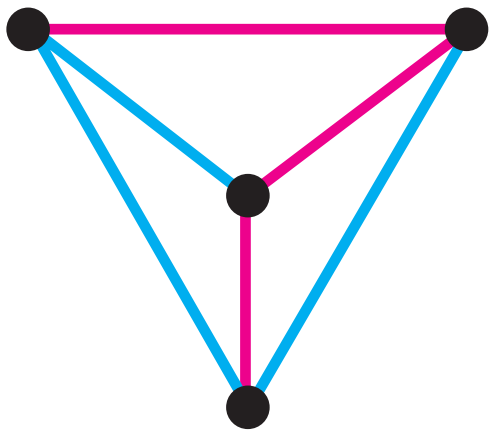
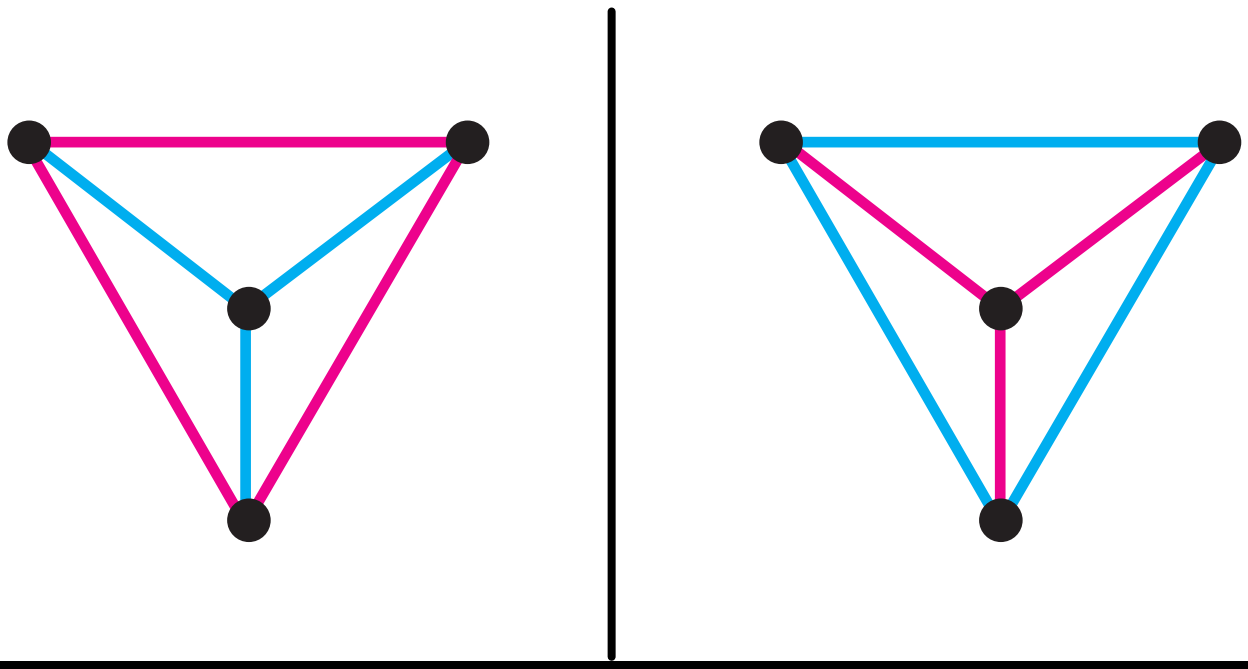
Name _____

W4(c)

Label the dots. If a cord picture is impossible, draw an X through it.

distance less than 10

distance 10 or more than 10



Name _____

Complete.

	1
10	1 1

 = _____

	1 1
1	10

 = _____

1	1
1	10

 = _____

10	
	1 1 1

 = _____

	10 1 1
1	

 = _____

1 1 1	
	10

 = _____

10 1 1 1	

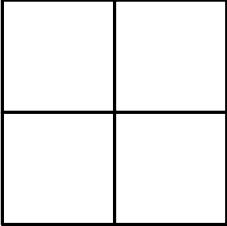
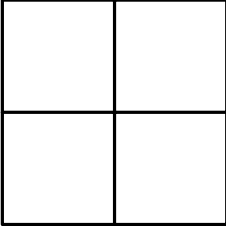
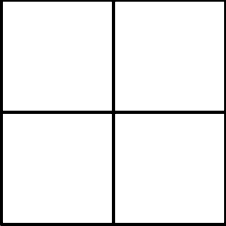
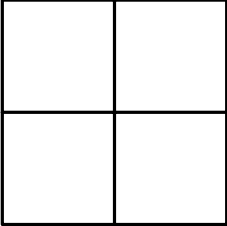
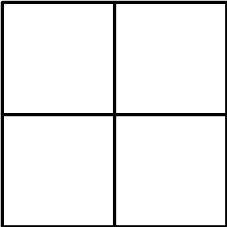
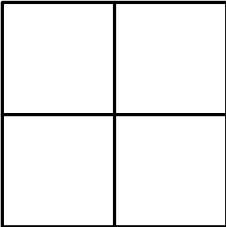
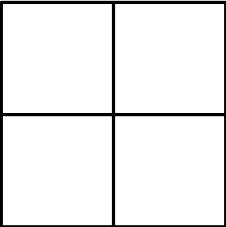
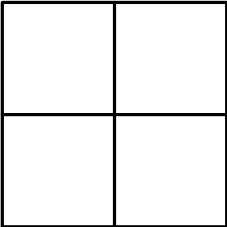
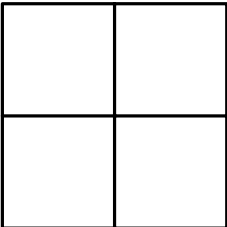
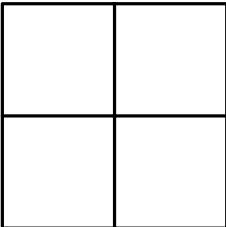
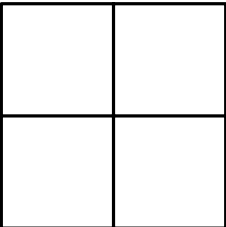
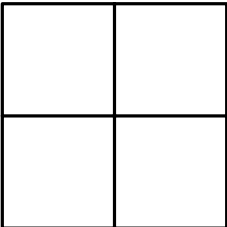
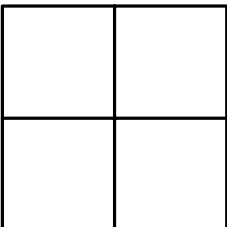
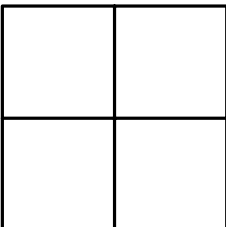
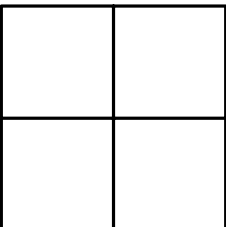
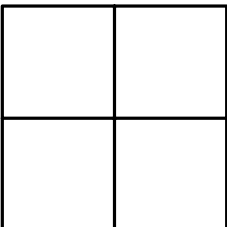
 = _____

1	10
1	1

 = _____

Name _____

Put any number you wish on each Minicomputer using exactly one dime and three pennies.

 _____	 _____	 _____	 _____
 _____	 _____	 _____	 _____
 _____	 _____	 _____	 _____
 _____	 _____	 _____	 _____

Name _____

Put these numbers on the Minicomputer using exactly one dime and three pennies.

 = 22

 = 47

 = 30

 = 100

 = 53

 = 94

 = 40

 = 45

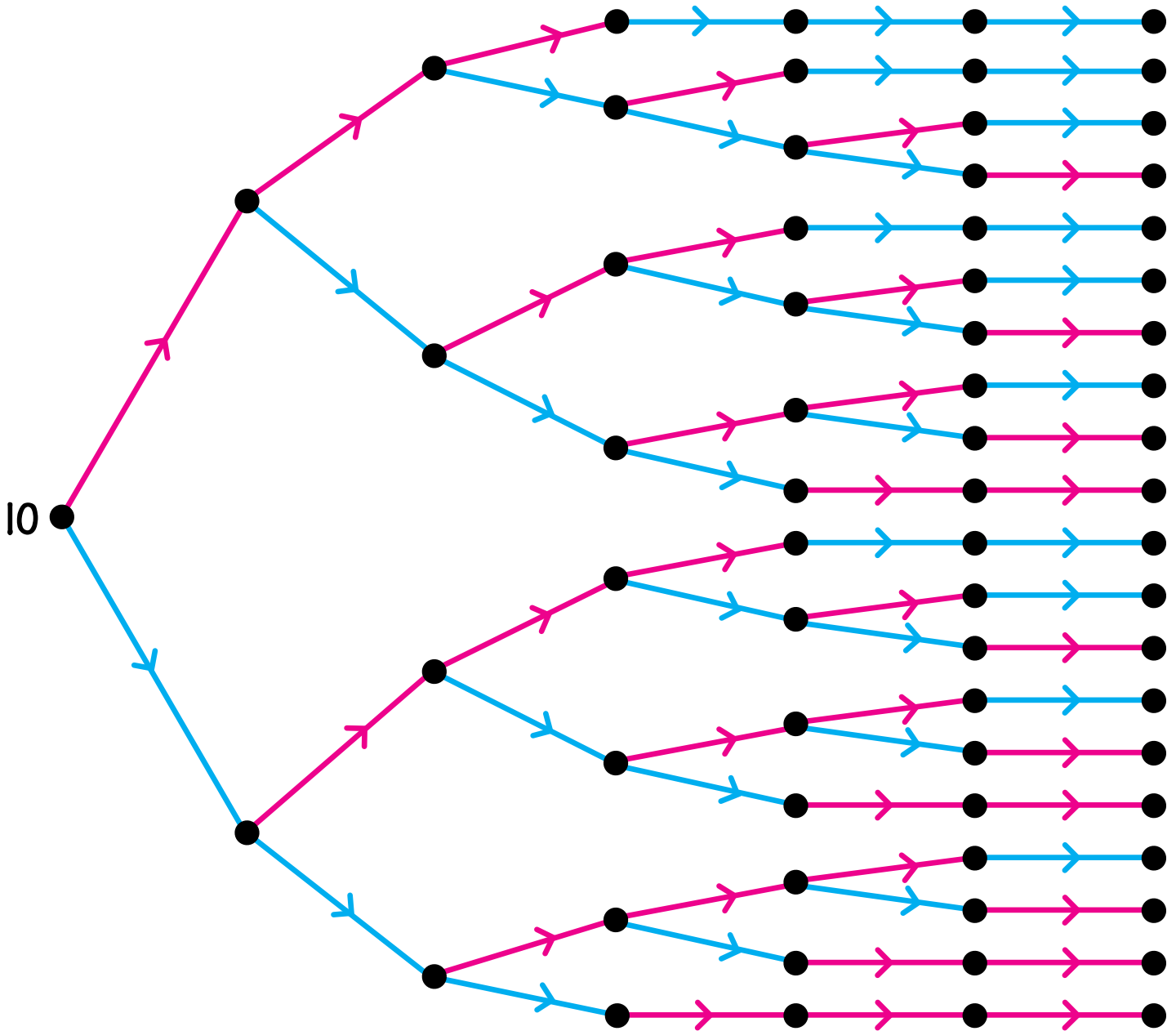
Name _____

W10

Label the dots.

$2 \times$

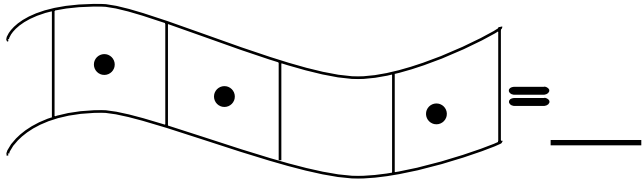
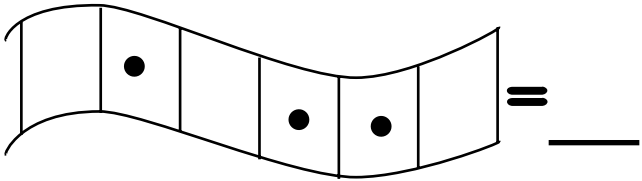
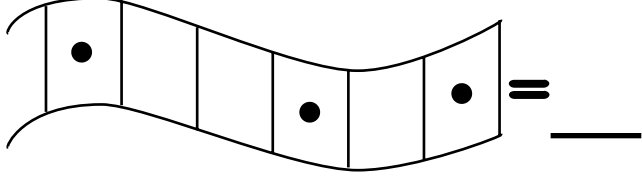
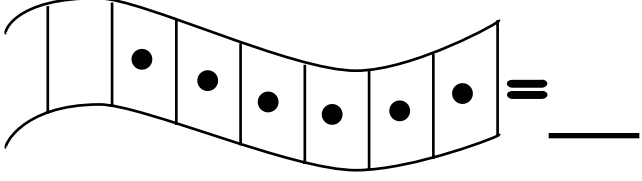
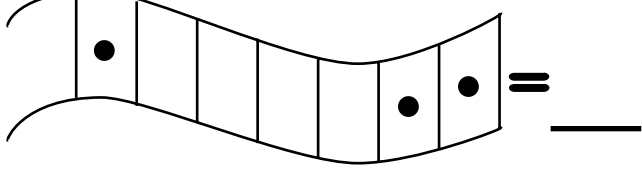
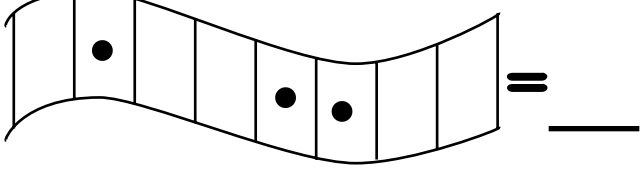
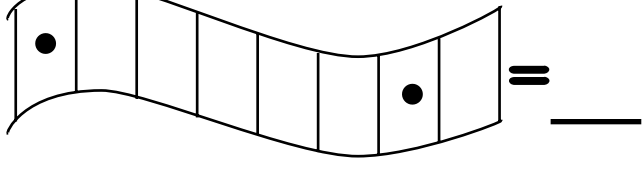
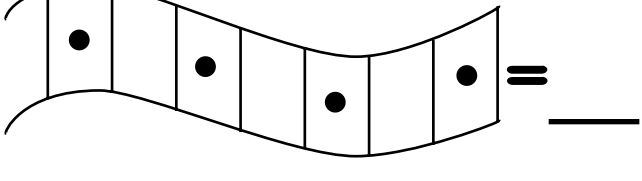
$+ 1$



Name _____

Complete.

On the binary snake

 = _____	 = _____
 = _____	 = _____
 = _____	 = _____
 = _____	 = _____

Name _____

W11 **

Put each number on the binary snake. Use at most one checker on each board.

